





# INDEX OF PATENTS

RELATING TO

# ELECTRICITY,

EMBRACING PATENTS ISSUED BY

THE UNITED STATES PATENT OFFICE

FROM JULY 1, 1896, TO JUNE 30, 1897.

---

## APPENDIX No. XVI.

---

COMPILED UNDER THE DIRECTION OF THE COMMISSIONER OF PATENTS.

282525

---

WASHINGTON:  
GOVERNMENT PRINTING OFFICE.  
1898.



# INDEX OF PATENTS

RELATING TO

# ELECTRICITY,

EMBRACING PATENTS ISSUED BY

THE UNITED STATES PATENT OFFICE

FROM JULY 1, 1896, TO JUNE 30, 1897.

---

## APPENDIX No. XVI.

---

COMPILED UNDER THE DIRECTION OF THE COMMISSIONER OF PATENTS.

---

WASHINGTON:  
GOVERNMENT PRINTING OFFICE.  
1898.



---

## APPENDIX No. XVI.

---

### PART I.

---

CONSISTING OF A

### SUB-CLASS INDEX OF ALL PATENTS

RELATING TO

### ELECTRICITY.

Issued from July 1, 1896, to June 30, 1897, inclusive, giving names of Inventors,  
and dates and numbers of Patents in each sub-class in  
numerical and chronological order.

---



# CLASSIFIED INDEX

OF

## PATENTS RELATING TO ELECTRICITY

FROM JULY 1, 1896, TO JUNE 30, 1897.

### 173. CONDUCTORS.—13. CONDUCTORS.

No.	NAME.	DATE.	No.	NAME.	DATE.
563,263	Diehl, A. S.	July 7, 1896	570,168	Greenfield, E. T.	Oct. 27, 1896
563,273	Guilleaume, T.	July 7, 1896	570,170	Greenfield, E. T.	Oct. 27, 1896
563,274	Guilleaume, T.	July 7, 1896	571,594	Johnston, W. H.	Nov. 17, 1896
564,433	Lewis, R. H.	July 21, 1896	571,760	Guilleaume, T.	Nov. 24, 1896
566,064	Damon, G. B.	Aug. 18, 1896	573,176	Borel, F.	Dec. 15, 1896
566,697	Place, J. F.	Aug. 25, 1896	574,343	Reid, E. S.	Dec. 29, 1896
568,295	Croskey and Locke	Sept. 22, 1896	575,170	Richards, H. T.	Jan. 12, 1897
568,756	Guilleaume, M.	Oct. 6, 1896	575,641	Gerard and Lawrence	Jan. 19, 1897
569,748	Edmunds, H.	Oct. 20, 1896	580,584	Robertson, A. J.	Apr. 13, 1897
570,165	Greenfield, E. T.	Oct. 27, 1896	581,715	Guilleaume, M.	May 4, 1897
570,166	Greenfield, E. T.	Oct. 27, 1896	584,936	Henry, I. W.	June 22, 1897
570,167	Greenfield, E. T.	Oct. 27, 1896			

### 173. CONDUCTORS.—70. CONDUCTORS—UNDERGROUND.

563,342	Welles, A. T.	July 7, 1896	564,994	Hart, W. H.	Aug. 4, 1896
563,360	Cope, T. J.	July 7, 1896			

### 173. CONDUCTORS.—247. CONDUITS.

578,333	Hilgeman, H. B.	Mar. 9, 1897	582,514	Anderson, J. M.	May 11, 1897
579,564	Deake and Moore	Mar. 30, 1897	582,910	Groshaus, J. J.	May 18, 1897

### 173. CONDUCTORS.—249. HOUSE WIRING.

564,174	Elwell, R. T.	July 14, 1896	576,810	DeRycke, J. J. J.	Feb. 9, 1897
564,443	Mezzer, C. A.	July 21, 1896	577,284	Camp, H. B.	Feb. 16, 1897
566,507	Erickson, F. W.	Aug. 25, 1896	579,213	Young, H. R.	Mar. 23, 1897
570,256	Lavens, E.	Oct. 27, 1896	583,672	Daniels, A. L.	June 1, 1897
571,297	Bossert, W. F.	Nov. 10, 1896	584,428	Tucker, A. L.	June 15, 1897
574,430	Johnston, W. H.	Jan. 5, 1897			

### 173. CONDUCTORS.—14. CONNECTORS.

563,695	Toquet, B. L.	July 7, 1896	573,386	Brown, C. E.	Dec. 15, 1896
564,243	Daniels, F. H.	July 21, 1896	573,612	McEvoy, C. H.	Dec. 22, 1896
564,415	Wallace, T.	July 21, 1896	575,354	Jens, W.	Jan. 19, 1897
564,679	Wurts, A. J.	July 28, 1896	575,388	Boweu, M. K.	Jau. 19, 1897
564,968	Buxton, F. E.	Aug. 4, 1896	576,375	Paea, W. S.	Feb. 2, 1897
565,344	Gilmore, H.	Aug. 4, 1896	576,469	Paea, W. S.	Feb. 2, 1897
565,672	Daniels, F. H.	Ang. 11, 1896	578,304	Jones, E. J.	Mar. 2, 1897
566,709	Bryan, J.	Aug. 25, 1896	578,829	McTighe and Childs	Mar. 16, 1897
567,257	Scott, G. H.	Sept. 8, 1896	581,263	Brown, H. P.	Apr. 27, 1897
567,541	McLanglin, J. M.	Sept. 15, 1896	581,562	Newton, H. S.	Apr. 27, 1897
568,385	Underwood and Daniels	Sept. 29, 1896	582,036	Bryant, W. C.	May 4, 1897
568,650	Williams, G. H.	Sept. 29, 1896	582,462	Dickersou, E. N.	May 11, 1897
568,713	Benson, C. C.	Sept. 29, 1896	582,464	Dusenberg, C. C.	May 11, 1897
568,918	Newton, H. C.	Oct. 6, 1896	582,698	Scott, C. H.	May 18, 1897
569,266	Wightman, M. J.	Oct. 13, 1896	582,849	Daniels, F. H.	May 18, 1897
569,713	Haug, H.	Oct. 20, 1896	583,242	Wright, J. A.	May 25, 1897
569,752	Gartner, A.	Oct. 20, 1896	583,309	McLaughliu, J.	May 25, 1897
569,753	Gartner, A.	Oct. 20, 1896	583,589	Austin, F. E.	June 1, 1897
570,169	Greenfield, E. T.	Oct. 27, 1896	582,902	Harrington and Somers	June 8, 1897
571,539	Sawyer, W. H.	Nov. 17, 1896	583,903	Harrington and Somers	June 8, 1897
571,588	Scott, G. H.	Nov. 24, 1896	584,013	Potter, W. B.	June 8, 1897
571,977	Mauger and Huebel	Nov. 24, 1896	584,229	Welden, B. F.	June 8, 1897
572,215	Patterson, W. R.	Dec. 1, 1896	584,644	Newberry, F. T.	June 15, 1897
572,669	Walker and Wilson	Dec. 8, 1896	585,185	Crane, H. M.	June 29, 1897

## CLASSIFIED INDEX—ELECTRICITY.

## 173. CONDUCTORS.—28. INSULATORS.

No.	Name.	Date.	No.	Name.	Date.
565,944	Toward, C. P.	Aug. 18, 1896	575,952	Hoover, F.	Jan. 26, 1897
566,045	Whitaker and Trebarne	Aug. 18, 1896	580,628	Trebarne, F. G.	Apr. 13, 1897
566,468	Oliver, J. B.	Aug. 25, 1896	581,088	Sharpe, J. E.	Apr. 20, 1897
568,060	Wood, W.	Sept. 22, 1896	582,396	Schnee, W. G.	May 11, 1897
573,092	Locke, F. M.	Dec. 15, 1896	583,692	Renault, E.	June 1, 1897
573,101	O'Neill, J. J.	Dec. 15, 1896	583,787	Christie, W.	June 1, 1897
573,966	Duncan, R.	Dec. 29, 1896	584,235	Nesmith and Arnett	June 8, 1897
574,828	Smock, B. D. B.	Jan. 5, 1897	584,823	Mead, G. W.	June 22, 1897
575,090	Adam, C. F.	Jan. 12, 1897	585,026	Delery, R.	June 22, 1897

## 173. CONDUCTORS.—31. LIGHTNING RODS.

573,750	Adams, L.	Dec. 22, 1896
---------	-----------	---------------

## 173. CONDUCTORS.—43. RHEOSTATS.

563,600	Leonard, H. W.	July 7, 1896	572,507	Hogan, J. J.	Dec. 1, 1896
566,103	Waite, H. F.	Aug. 18, 1896	573,558	Voss, D. C.	Dec. 22, 1896
566,693	Leonard, H. W.	Aug. 25, 1896	574,231	Werner, E. E.	Dec. 29, 1896
567,223	Dean, W. W.	Sept. 8, 1896	575,235	Hawker, W.	Jan. 12, 1897
571,489	Marquand and Lowden	Nov. 17, 1896	576,202	Leonard, H. W.	Feb. 2, 1897
572,421	Hawker, W.	Dec. 1, 1896	581,170	Nebel, J.	Apr. 20, 1897

## 191. ELECTRIC RAILWAYS.—17. COLLAPSIBLE-TUBE CONDUCTOR.

575,346	Grunow, W., Jr.	Jan. 19, 1897
---------	-----------------	---------------

## 191. ELECTRIC RAILWAYS.—1. CONDUCTOR SUPPORTS AND INSULATORS.

563,482	Haley, P.	July 7, 1896	578,825	Luscomb and Crane	Mar. 16, 1897
564,984	Fisk, C. H.	Aug. 4, 1896	579,725	Keithly, W. C.	Mar. 30, 1897
565,174	McCarthy, L.	Aug. 4, 1896	580,165	Stephens, J.	Apr. 6, 1897
566,376	Cooper, W.	Aug. 25, 1896	580,381	Davis, H. P.	Apr. 13, 1897
568,452	McCallum, W. A.	Sept. 29, 1896	581,023	Foster, S. L.	Apr. 20, 1897
569,338	Kissinger, W. S.	Oct. 13, 1896	581,242	Viele, F. S.	Apr. 20, 1897
570,034	Martin and Hewlett	Oct. 27, 1896	582,337	Atwood, J. E.	May 11, 1897
570,140	McCarthy, L.	Oct. 27, 1896	582,344	Cook, E. J.	May 11, 1897
571,454	Potter, W. B.	Nov. 17, 1896	582,907	Feeley, F. T.	May 18, 1897
571,455	Potter, W. B.	Nov. 17, 1896	584,383	Luscomb, H. H.	June 15, 1897
574,101	Martin, C. B.	Dec. 29, 1896	584,476	Libbey, S. H.	June 15, 1897
575,782	Potter, W. B.	Jan. 26, 1897	584,477	Libbey, S. H.	June 15, 1897
576,392	Billings, H. E.	Feb. 2, 1897	11,612	Hanson and Chapman (Reis.)	June 22, 1897
577,704	Young, T. W.	Feb. 23, 1897			

## 191. ELECTRIC RAILWAYS.—2. ELECTRIC LOCOMOTIVES.

569,802	Schmid, A.	Oct. 20, 1896	574,632	Schlesinger, W. M.	Jan. 5, 1897
570,119	Bradley, C. S.	Oct. 27, 1896	575,490	McLaughlin, J. F.	Jan. 19, 1897
572,036	Therye, C.	Nov. 24, 1896	579,527	Westinghouse, G.	Mar. 23, 1897
572,706	Hunter, R. M.	Dec. 8, 1896			

## 191. ELECTRIC RAILWAYS.—15. GENERAL.

567,416	Scofield and Wayland	Sept. 8, 1896	581,773	Sayer, R. C.	May 4, 1897
567,487	Mann, E. F.	Sept. 8, 1896	583,997	Hewlett, E. M.	June 8, 1897

## 191. ELECTRIC RAILWAYS.—30. ELECTRIC LOCOMOTIVES—MOTOR ON AXLE.

570,945	McLaughlin, J. F.				Nov. 10, 1896
---------	-------------------	--	--	--	---------------

## 191. ELECTRIC RAILWAYS.—24. MOTOR—PART ALONG THE TRACK.

NO.	NAME.	DATE.	NO.	NAME.	DATE.
564,262	Stern, P. K.	Jnly 21, 1896	573,821	Leffler, P. W.	Dec. 22, 1896
573,819	Leffler, P. W.	Dec. 22, 1896	573,822	Leffler, P. W.	Dec. 22, 1896
573,820	Leffler, P. W.	Dec. 22, 1896	573,823	Leffler, P. W.	Dec. 22, 1896

## 191. ELECTRIC RAILWAYS.—19. SECTIONAL CONDUCTOR—MAGNETIC CLOSERS.

565,985	Hoffman, J.	Aug. 18, 1896	575,054	Dion, L.	Jan. 12, 1897
567,517	Sill, C.	Sept. 8, 1896	575,785	Rice, E. W., Jr.	Jan. 26, 1897
570,325	Norman, A.	Oct. 27, 1896	576,082	Alexander, J. P.	Feb. 2, 1897
570,565	Reagan, H. C.	Nov. 3, 1896	577,450	Redon, C. F. de	Feb. 23, 1897
570,566	Reagan, H. C.	Nov. 3, 1896	579,525	Westinghouse, G.	Mar. 23, 1897
573,033	Osborn, B. E.	Dec. 15, 1896	580,057	Robinson, W.	Apr. 6, 1897
573,066	Westinghouse, G.	Dec. 15, 1896	581,264	Brown, W. M.	Apr. 27, 1897
573,146	Hewlett, E. M.	Dec. 15, 1896	581,769	Reagan, H. C.	May 4, 1897
573,302	Selkirk, A.	Dec. 15, 1896	583,178	Hoffman, J. H.	May 25, 1897
573,645	Cooley, W. H.	Dec. 22, 1896	583,324	Brown, W. M.	May 25, 1897
574,171	Roche, J. A.	Dec. 29, 1896	584,639	Jones, H. M.	June 15, 1897
575,053	Dion, L.	Jan. 12, 1897	585,253	Brown, W. M.	Jnne 29, 1897

## 191. ELECTRIC RAILWAYS.—21. SECTIONAL CONDUCTOR—MECHANICAL CLOSERS.

564,054	De Witt and Elliott	Jnly 14, 1896	569,432	Shover and Townsend	Oct. 13, 1896
565,085	Mattson, C. D.	Ang. 4, 1896	571,435	Forrey, G. J.	Nov. 17, 1896
565,624	Linn, J. B.	Ang. 11, 1896	572,013	King, W. L.	Nov. 24, 1896
566,542	Skinner, C.	Ang. 25, 1896	576,268	Grunow, W., Jr.	Feb. 2, 1897
566,714	Hornig, J. L.	Ang. 25, 1896	577,885	Skinner, C.	Mar. 2, 1897
566,736	Murphy and Pierce	Sept. 1, 1896	579,576	Grunow, W., Jr.	Mar. 30, 1897
566,801	Robinson, W. R.	Sept. 1, 1896	579,759	Mansfield, F.	Mar. 30, 1897
567,975	Grunow, W., Jr.	Sept. 22, 1896	584,511	Kloman, T. W.	June 15, 1897
569,331	Gorton, A.	Oct. 13, 1896			

## 191. ELECTRIC RAILWAYS.—20. SECTIONAL CONDUCTOR—TRAVELING CLOSERS.

566,397	Hull, W. S.				Aug. 25, 1896
---------	-------------	--	--	--	---------------

## 191. ELECTRIC RAILWAYS.—4. SYSTEMS—BATTERY.

565,407	Fickemeyer, R.	Ang. 4, 1896	570,373	Browne, W. S.	Oct. 27, 1896
---------	----------------	--------------	---------	---------------	---------------

## 191. ELECTRIC RAILWAYS.—5. SYSTEMS—CONDUIT.

563,254	Brandenburg, H.	Jnly 7, 1896	579,300	Lachmann, E.	Mar. 23, 1897
563,282	Lachmann, E.	Jnly 7, 1896	580,246	Babendreier, A. O.	Apr. 6, 1897
565,102	Brandenburg, H.	Ang. 4, 1896	581,251	Griffin, J. D.	Apr. 27, 1897
565,103	Brandenburg, H.	Ang. 4, 1896	581,368	Priest, E. D.	Apr. 27, 1897
565,240	Sherman and Kenyon	Ang. 4, 1896	583,524	Wheeler, A. G.	Jnne 1, 1897
566,035	Stobrawa, M.	Ang. 18, 1896	583,525	Wheeler, A. G.	Jnne 1, 1897
567,540	Grassler, W. F.	Sept. 8, 1896	583,575	Hirt, L. J.	June 1, 1897
569,618	Dickerson, M.	Oct. 20, 1896	583,926	McRoy, J. T.	June 8, 1897
571,532	Hunter, R. M.	Nov. 24, 1896	584,873	Hunter, F. W.	June 22, 1897
573,169	Sprague, A.	Dec. 15, 1896	585,047	Petersen, C.	June 22, 1897
577,912	Broius, S. G.	Mar. 2, 1897			

## 191. ELECTRIC RAILWAYS.—16. SYSTEMS—DISTRIBUTION.

534,452	Rice, E. W.	June 15, 1897	584,957	Patten, F. J.	June 22, 1897
---------	-------------	---------------	---------	---------------	---------------

## CLASSIFIED INDEX—ELECTRICITY.

## 191. ELECTRIC RAILWAYS.—11. SYSTEMS—OVERHEAD.

No.	NAME.	DATE.	No.	NAME.	DATE.
563,546	Bean, M. F.	July 7, 1896	569,827	Henry, J. C.	Oct. 20, 1896
564,629	Mather, A. C.	July 28, 1896	575,615	Osyor, D. N.	Jan. 19, 1897
567,133	Haudshy, H. M.	Sept. 8, 1896	579,728	Walker, W. H.	Mar. 30, 1897
567,186	Cassidy, P.	Sept. 8, 1896	580,380	Davis, H. P.	Apr. 13, 1897
568,523	Davis, C. E.	Sept. 29, 1896	584,911	Westinghouse, G.	June 22, 1897

## 191. ELECTRIC RAILWAYS.—12. SYSTEMS—OVERHEAD, TROLLEYS.

563,531	Wilson, C. F.	July 7, 1896	572,933	Seymour, H. A.	Dec. 8, 1896
563,749	Cottrell, W. C.	July 14, 1896	572,940	Orth, C. F. L.	Dec. 8, 1896
563,998	Blanchard, H. H.	July 14, 1896	573,257	Börreson, B. H.	Dec. 15, 1896
564,395	Russell, W. H.	July 21, 1896	573,517	Lynch, V. T.	Dec. 22, 1896
564,638	Ogborn, H.	July 28, 1896	573,535	Randall, C. F.	Dec. 22, 1896
564,793	Lippey and Finfrock	July 28, 1896	574,345	Stanley and Reynolds	Dec. 29, 1896
564,794	Lippey and Finfrock	July 28, 1896	574,377	Bentley, E. M.	Jan. 5, 1897
564,795	Lippey and Finfrock	July 28, 1896	574,388	Butler, W. A.	Jan. 5, 1897
564,955	Brunswick and Johnson	July 28, 1896	574,527	Duryea and Thompson	Jan. 5, 1897
565,725	Dailey, J. B.	Aug. 11, 1896	574,819	Pepper, W. L.	Jan. 5, 1897
566,161	Fursteman, M. C.	Aug. 18, 1896	575,080	Troutwine, W. S.	Jan. 12, 1897
566,237	Short, S. H.	Aug. 18, 1896	575,099	Bishop, J. E.	Jan. 12, 1897
566,252	Van Hoogstrate, J.	Aug. 18, 1896	576,394	Campbell, G. L.	Feb. 2, 1897
566,345	Short, S. H.	Aug. 25, 1896	576,405	Langford, C. A.	Feb. 2, 1897
566,984	Hunter, R. M.	Sept. 1, 1896	576,721	Caffrey, W. G.	Feb. 9, 1897
567,118	Canales, F. W.	Sept. 1, 1896	577,741	Gale, H. N.	Feb. 23, 1897
567,306	Dyer, R. N.	Sept. 8, 1896	577,853	Halsey, L. M.	Mar. 2, 1897
567,307	Dyer, R. N.	Sept. 8, 1896	577,921	Holahan, T.	Mar. 2, 1897
567,411	Priest, E. D.	Sept. 8, 1896	578,539	Blamey, E.	Mar. 9, 1897
567,474	Hews, J. E.	Sept. 8, 1896	578,542	Brooks, H. M.	Mar. 9, 1897
567,690	Sackett, O. R.	Sept. 15, 1896	579,380	Branth, J. F. S.	Mar. 23, 1897
567,784	Hanson, A.	Sept. 15, 1896	579,506	Westinghouse, G.	Mar. 23, 1897
567,879	Birth, F. S.	Sept. 15, 1896	580,708	Orme, R.	Apr. 13, 1897
567,899	Hayn, F. M. N. E.	Sept. 15, 1896	582,259	Brown, W. M.	May 11, 1897
569,352	Randall, C. F.	Oct. 13, 1896	582,882	Short, S. H.	May 18, 1897
569,735	Bassett, N. C.	Oct. 20, 1896	583,868	Johnson, G. E.	June 1, 1897
569,756	Holz, O.	Oct. 20, 1896	583,881	McIntire, C. S.	June 1, 1897
569,772	Short, S. H.	Oct. 20, 1896	584,606	Short, S. H.	June 15, 1897
569,889	Seymour, H. A.	Oct. 20, 1896	584,607	Short, S. H.	June 15, 1897
570,078	Whiting, W. M.	Oct. 27, 1896	584,831	Smith and Johnston	June 22, 1897
570,475	Hance, J. A.	Nov. 3, 1896	584,918	Bentley, E. M.	June 22, 1897
570,740	Walton, F. T.	Nov. 3, 1896	585,267	Gairing, A. J.	June 29, 1897
571,092	Macevoy, P. C.	Nov. 10, 1896	585,293	Stahl, S. H.	June 29, 1897
571,120	Hinckley, H. D.	Nov. 10, 1896	585,380	Dunham, W. C.	June 29, 1897
571,517	Erb, L. M.	Nov. 17, 1896	585,579	Kellogg, J. C.	June 29, 1897
571,710	Tufts, S. F.	Nov. 17, 1896	585,602	Thleim, V.	June 29, 1897
571,994	Donahue and Hansman	Nov. 24, 1896			

## 191. ELECTRIC RAILWAYS.—23. TROLLEY—OPERATED TRACK SWITCHES.

582,262	Bryan, J.				May 11, 1897
---------	-----------	--	--	--	--------------

## 191. ELECTRIC RAILWAYS.—22. TELpher AND TOWING.

564,369	Farnham, E. W.	July 21, 1896	575,488	Milligan, T. P.	Jan. 19, 1897
570,839	Bovet, A. de	Nov. 3, 1896	576,622	Schalscha, M.	Feb. 9, 1897
571,440	Weidenreick and Monrath	Nov. 17, 1896	579,158	Mengis, M. C.	Mar. 23, 1897
572,377	Schatz, A. E.	Dec. 1, 1896			

## 171. GENERATION.—73. BATTERIES—THERMAL.

563,262	Dickerson, E. N.	July 7, 1896	585,229	Reagan, H. C.	June 29, 1897
577,270	Reagan, H. C., Jr.	Feb. 16, 1897			

## 171. GENERATION.—95. GALVANOMETERS.

No.	Name.	Date.	No.	Date.	Date.
563,917	Evershed, S -----	July 14, 1896	579,344	Houston and Kennelly -----	Mar. 23, 1897
570,454	Coleman, C -----	Nov. 3, 1896	580,384	Duncan, T -----	Apr. 13, 1897
570,481	Hunter, R. M -----	Nov. 3, 1896	582,090	Raps, A -----	May 4, 1897
572,380	Simonds, A. A -----	Dec. 1, 1896	582,120	Franke, A -----	May 4, 1897
574,739	Kelly, G. F -----	Jan. 5, 1897	583,160	Wright, A -----	May 25, 1897
575,767	Frölich, O -----	Jan. 26, 1897	583,934	Potter, W. B -----	June 8, 1897
577,678	Brandt, P -----	Feb. 23, 1897			

## 171. GENERATION.—122. INDUCTORIUMS—INDUCTION COILS.

577,671	Tesla, N -----				Feb. 23, 1897
---------	----------------	--	--	--	---------------

## 171. GENERATION.—124. INDUCTORIUMS—TRANSFORMERS, STATIONARY.

563,895	Thomson, E -----	July 14, 1896	577,480	Gutmann, L -----	Feb. 23, 1897
564,944	Sessions, F. L -----	July 28, 1896	577,742	Gutmann, L -----	Feb. 23, 1897
567,237	Hobart, H. M -----	Sept. 8, 1896	579,395	Jeannin, F. H -----	Mar. 23, 1897
567,250	Moody, W. S -----	Sept. 8, 1896	580,206	Blackmore, R. W -----	Apr. 6, 1897
570,310	Kelly, J. F -----	Oct. 20, 1896	581,873	Thomson, E -----	May 4, 1897
571,863	Mershon, R. D -----	Nov. 24, 1896	583,944	Rice, E. W -----	June 8, 1897

## 171. GENERATION.—206. MAGNETO-ELECTRIC—ARMATURES, DRUM.

565,647	Thomson and Armstrong -----	Aug. 11, 1896	577,148	Reist, H. G -----	Feb. 16, 1897
565,931	Short, S. H -----	Aug. 18, 1896	583,991	Geisenhöner, H -----	June 8, 1897
571,780	Marzahn, W. F -----	Nov. 24, 1896			

## 171. GENERATION.—207. MAGNETO-ELECTRIC—ARMATURES, POLE.

564,703	Lamme, B. G -----	July 28, 1896	580,977	Jeck, G. L -----	Apr. 20, 1897
---------	-------------------	---------------	---------	------------------	---------------

## 171. GENERATION.—208. MAGNETO-ELECTRIC—ARMATURES, RING.

564,200	Hutin and Leblanc -----	July 21, 1896	580,889	Parcelle, A. L -----	Apr. 20, 1897
566,288	Badt and Lyford -----	Aug. 25, 1896	582,269	Clark, E. P -----	May 11, 1897
567,746	Haerer and Gikeheimer -----	Sept. 15, 1896	582,481	Nolan, E. E -----	May 11, 1897
577,130	Geisenhöner, H -----	Feb. 16, 1897	582,494	Westinghouse, G -----	May 11, 1897
580,011	Short, S. H -----	Apr. 6, 1897	584,431	Wait, H. H -----	June 15, 1897

## 171. GENERATION.—209. MAGNETO-ELECTRIC—BIPOLAR.

567,586	Dorman, G. E -----	Sept. 15, 1896	571,951	Moskowitz, M -----	Nov. 24, 1896
569,754	Gibboney, J. W -----	Oct. 20, 1896	578,280	Turner, C. P -----	Mar. 2, 1897
570,914	Dorman, G. E -----	Nov. 10, 1896	581,366	Poole, C. C -----	Apr. 27, 1897

## 171. GENERATION.—210. MAGNETO-ELECTRIC—BRUSHES AND HOLDERS.

563,337	Wait, H. H -----	July 7, 1896	573,105	Raymond, E. B -----	Dec. 15, 1896
566,366	Woods, C. E -----	Aug. 25, 1896	575,918	Wheeler, S. L. S -----	Jan. 26, 1897
568,413	Short, S. H -----	Sept. 29, 1896	578,016	Kester and Atherton -----	Mar. 2, 1897
568,414	Short, S. H -----	Sept. 29, 1896	582,883	Short, S. H -----	May 18, 1897
568,415	Short, S. H -----	Sept. 29, 1896	582,884	Short, S. H -----	May 18, 1897
569,824	Hand, W. M -----	Oct. 20, 1896	584,912	Yearsley, J. H -----	Jnne 22, 1897
571,420	Warren, A. K -----	Nov. 17, 1896			

## 171. GENERATION.—211. MAGNETO-ELECTRIC—COMMUTATORS AND COLLECTORS.

567,745	Haerer and Gikeheimer -----				Sept. 15, 1896
---------	-----------------------------	--	--	--	----------------

## CLASSIFIED INDEX—ELECTRICITY.

## 171. GENERATION.—118. MAGNETO-ELECTRIC—CONNECTING DEVICES.

No.	NAME.	DATE.	No.	NAME.	DATE.
577,141	Mackintosh, F.				Feb. 16, 1897

## 171. GENERATION.—76. MAGNETO-ELECTRIC—HAND MACHINES.

563,453	Cronse and Milgate	July 7, 1896	578,006	Ericsson, L. M.	Mar. 2, 1897
563,599	Leonard, A. L.	July 7, 1896	579,975	Gillette, W.	Apr. 6, 1897
564,437	Macbeth, J.	July 21, 1896	580,555	Libbey, H. W.	Apr. 6, 1897
569,385	North, C. II.	Oct. 13, 1896	581,340	Cutten, E. B.	Apr. 27, 1897
571,305	Francis, J. C.	Nov. 10, 1896	584,338	Eldred, H. H.	June 15, 1897
576,372	Miller, J. Z.	Feb. 2, 1897	584,853	Chellis, E. W.	June 22, 1897

## 171. GENERATION.—252. MAGNETO-ELECTRIC—MULTIPOLEAR.

563,911	Cooper, W.	July 14, 1896	571,181	Wood, J. J.	Nov. 10, 1896
563,940	Parcellie, A. L.	July 14, 1896	571,310	Lundell, R.	Nov. 10, 1896
564,702	Lamme, B. G.	July 28, 1896	571,462	Thomson and Geisenhouer	Nov. 17, 1896
564,743	Elliott and Eskholme	July 28, 1896	571,576	Steinmetz, C. P. (Reissue)	Nov. 24, 1896
565,529	Caemmerer and Mayer	Aug. 11, 1896	573,009	Lamme, B. G.	Dec. 15, 1896
565,530	Caemmerer and Mayer	Aug. 11, 1896	573,107	Reist, H. G.	Dec. 15, 1896
565,930	Short, S. H.	Aug. 18, 1896	573,130	Blackwell, F. O.	Dec. 15, 1896
566,120	Ahlm, C. E. F.	Aug. 18, 1896	575,116	Hutin and Leblanc	Jan. 12, 1897
567,423	Thury, R.	Sept. 8, 1896	575,210	Campbell, G. L.	Jan. 12, 1897
567,424	Thury, R.	Sept. 8, 1896	579,012	Scheeffer, G. A.	Mar. 16, 1897
567,719	Libbey, H. W.	Sept. 15, 1896	581,089	Southworth, M. O.	Apr. 20, 1897

## 171. GENERATION.—34. METERS.

566,573	Hacking and Brand	Aug. 25, 1896	11,158	Harris, J. (Reissue)	Feb. 2, 1897
570,019	Hummel, G.	Oct. 27, 1896	578,430	Thomson, E.	Mar. 9, 1897
571,032	Wirt, Green, and Burger	Nov. 10, 1896	579,079	Raps, A.	Mar. 16, 1897
571,036	Burger and McFall	Nov. 10, 1896	579,582	Hookhan, G.	Mar. 30, 1897
571,037	Burger and McFall	Nov. 10, 1896	581,298	McFall, W. H.	Apr. 27, 1897
571,050	Marks, W. D.	Nov. 10, 1896	581,363	Naber, H. A.	Apr. 27, 1897
573,021	Marks, W. D.	Dec. 15, 1896	582,493	Telge, G. A. J.	May 11, 1897
573,078	Duncan, T.	Dec. 15, 1896	583,900	Harris, J.	June 8, 1897
573,079	Duncan, T.	Dec. 15, 1896	583,950	Steinmetz, C. P.	June 8, 1897
573,080	Duncan, T.	Dec. 15, 1896	583,951	Steinmetz, C. P.	June 8, 1897
573,082	Erben, C.	Dec. 15, 1896	583,957	Thomson, E.	June 8, 1897
574,563	Paekard, G. T.	Jan. 5, 1897	585,257	Cox, F. P.	June 29, 1897
574,903	Hessberger, J.	Jan. 12, 1897	585,258	Cox, F. P.	June 29, 1897
575,777	Fish, W. C.	Jan. 26, 1897	585,527	Lindberg, C.	June 29, 1897
576,240	Tucker and Hinckley	Feb. 2, 1897			

## 171. GENERATION.—119. REGULATORS—ALTERNATING.

567,197	Rice, E. W., Jr.	Sept. 8, 1896	584,062	Parshall, H. F.	June 8, 1897
568,458	Potter and Case	Sept. 29, 1896	584,577	Danielson, E.	June 15, 1897
571,467	Armstrong, A. H.	Nov. 17, 1896			

## 171. GENERATION.—241. REGULATORS—ALTERNATING, COMPOUNDING.

563,427	Steinmetz, C. P.	July 7, 1896	574,035	Lamme, B. G.	Dec. 29, 1896
565,284	Lamme, B. G.	Aug. 4, 1896	579,253	Steinmetz, C. P.	Mar. 23, 1897
568,464	Steinmetz, C. P.	Sept. 29, 1896			

## 171. GENERATION.—221. REGULATORS—BRUSH ADJUSTMENT.

585,307	Emery, C. E.				June 29, 1897
---------	--------------	--	--	--	---------------

## 171. GENERATION.—222. REGULATORS—CIRCUIT INTERRUPTION.

573,767	Denayrouze, L.				Dec. 22, 1896
---------	----------------	--	--	--	---------------

## CLASSIFIED INDEX—ELECTRICITY.

7

## 171. GENERATION.—224. REGULATORS—COMPOUNDING-MACHINES.

No.	NAME.	DATE.	No.	NAME.	DATE.
564,558	Eickemeyer, R-----	July 21, 1896	583,173	Emery, C. E-----	May 25, 1897
580,490	Hicks, T. H-----	Apr. 13, 1897			

## 171. GENERATION.—223. REGULATORS—COMPOUND-WINDING.

574,914	Lamme, B. G-----	Jan. 12, 1897	576,145	Nash, L. H-----	Feb. 2, 1897
---------	------------------	---------------	---------	-----------------	--------------

## 171. GENERATION.—225. REGULATORS—COUNTER ELECTROMOTIVE FORCE.

566,860	Hicks, T. H-----	Sept. 1, 1896	579,063	Hunter, R. M-----	Mar. 16, 1897
---------	------------------	---------------	---------	-------------------	---------------

## 171. GENERATION.—226. REGULATORS—ENGINE-CONTROL.

565,032	Replogle, M. A-----	Aug. 4, 1896	571,363	Handy, W. W-----	Nov. 17, 1896
565,139	Gale, H. B-----	Aug. 4, 1896	574,320	Giesler, A-----	Dec. 29, 1896
567,366	Thunderboldt, E-----	Sept. 8, 1896	582,233	Rites, F. M-----	May 11, 1897

## 171. GENERATION.—228. REGULATORS—REDUCING SPARKS.

564,559	Eickemeyer, R-----	July 21, 1896	579,059	Hicks, T. H-----	Mar. 16, 1897
---------	--------------------	---------------	---------	------------------	---------------

## 171. GENERATION.—229. REGULATORS—RESISTANCE.

563,290	Loveridge, F. H-----	July 7, 1896	572,627	Bliss, W. L-----	Dec. 8, 1896
566,936	Putnam, J. E-----	Sept. 1, 1896	574,217	Pusey, T. M-----	Dec. 29, 1896
567,023	Dunn, D. W-----	Sept. 1, 1896	576,621	Schalscha, M-----	Feb. 9, 1897
567,651	Merriam, H. P-----	Sept. 15, 1896	581,658	Chapman, W. H-----	Apr. 27, 1897
567,714	Herdman, F. E-----	Sept. 15, 1896	584,155	Gartland, C. C-----	June 8, 1897
570,663	Easton, J. W-----	Nov. 3, 1896			

## 171. GENERATION.—230. REGULATORS—SECTIONAL WINDING.

580,150	Wade, Moores, and Farrell-----				Apr. 6, 1897
---------	--------------------------------	--	--	--	--------------

## 171. GENERATION.—97. SYSTEMS OF DISTRIBUTION.

569,538	Booth, A. C-----	Oct. 13, 1896	573,647	Green, C. M-----	Dec. 22, 1896
570,118	Bradley, C. S-----	Oct. 27, 1896	574,278	Scribner, C. E-----	Dec. 29, 1896
570,599	Kapp, G-----	Nov. 3, 1896	581,091	Wappler, R. H-----	Apr. 20, 1897
571,270	Kelly and Chesney-----	Nov. 10, 1896	581,644	Hunter, R. M-----	Apr. 27, 1897
571,300	Chesney and Kelly-----	Nov. 10, 1896	583,622	Heedt, P. M-----	June 1, 1897
571,849	Shallenberger, O. B-----	Nov. 24, 1896	584,843	Belfield, R-----	June 22, 1897

## 174. MEDICAL AND SURGICAL.—87. BATHS.

565,056	Waite, H. E-----				Aug. 4, 1896
---------	------------------	--	--	--	--------------

## 174. MEDICAL AND SURGICAL.—88. BODY WEAR.

569,529	Vellines, B. H-----	Oct. 13, 1896	571,488	Madden, J. W-----	Nov. 17, 1896
569,649	Luce, J. E-----	Oct. 20, 1896	576,053	Gray, L. A-----	Jan. 26, 1897

## 174. MEDICAL AND SURGICAL.—89. ELECTRODES.

564,258	Rosebach, G-----	July 21, 1896	578,611	Rively, J. D-----	Mar. 9, 1897
565,095	Mnir, J. L-----	Sept. 22, 1896	582,721	Deuther, J. A-----	May 18, 1897
572,341	Gibbs, J. W-----	Dec. 1, 1896			

## CLASSIFIED INDEX—ELECTRICITY.

## 174. MEDICAL AND SURGICAL.—177. MEDICAL AND SURGICAL.

NO.	NAME.	DATE.	NO.	NAME.	DATE.
563,387	Keller, M. E -----	July 7, 1896	567,422	Thompson, M. L -----	Sept. 8, 1896
564,717	Rider, H. E -----	July 28, 1896			

## 174. MEDICAL AND SURGICAL.—172. CHAIRS AND COUCHES.

577,233	Burger, N. H -----				Feb. 16, 1897
---------	--------------------	--	--	--	---------------

## 174. MEDICAL AND SURGICAL.—174. ELECTRIC SOLES.

583,043	Gibbs, J. W -----				May 25, 1897
---------	-------------------	--	--	--	--------------

## 174. MEDICAL AND SURGICAL.—175. EXERCISING APPARATUS.

578,471	Sherman, W. N -----				Mar. 9, 1897
---------	---------------------	--	--	--	--------------

## 172. MOTIVE POWER.—15. DENTAL INSTRUMENTS.

569,380	Hollingsworth, M. W -----	Oct. 13, 1896	574,025	Edgecomb, H. A -----	Dec. 29, 1896
---------	---------------------------	---------------	---------	----------------------	---------------

## 172. MOTIVE POWER.—152. ELEVATORS.

564,480	Francis, G. T -----	July 21, 1896	570,410	Perkins, F. B -----	Oct. 27, 1896
568,506	Wellman, H. R -----	Sept. 29, 1896	570,827	Strohm, S. D -----	Nov. 3, 1896
568,567	Herdman, F. E -----	Sept. 29, 1896	571,502	Wilson, R -----	Nov. 17, 1896
568,568	Herdman, F. E -----	Sept. 29, 1896	573,531	Pratt, C. R -----	Dec. 22, 1896
568,569	Herdman, F. E -----	Sept. 29, 1896	573,809	Clark, J. H -----	Dec. 22, 1896
568,570	Herdman, F. E -----	Sept. 29, 1896	575,479	Hunter, R. M -----	Jan. 19, 1897
568,571	Herdman, F. E -----	Sept. 29, 1896			

## 172. MOTIVE POWER.—36. MOTORS.

564,455	Scott, C. J -----	July 21, 1896	571,043	Green, G. R -----	Nov. 10, 1896
566,849	Bram, J -----	Sept. 1, 1896	579,051	Fiske, J. P. B -----	Mar. 16, 1897
569,746	Collins, H. B -----	Oct. 20, 1896	579,062	Horry, W. S -----	Mar. 16, 1897
569,866	Freeman, W. E -----	Oct. 20, 1896	583,264	Lundell, R -----	May 25, 1897
570,424	Brinkman, S. G -----	Oct. 27, 1896	583,953	Tesla, N -----	June 8, 1897

## 172. MOTIVE POWER.—120. MOTORS—ALTERNATING.

567,119	Eickemeyer, R -----	Sept. 1, 1896	577,427	Gntmann, L -----	Feb. 23, 1897
571,478	Hutin and Leblanc -----	Nov. 17, 1896	578,069	Stock, H. A -----	Mar. 2, 1897
571,836	Lamme, B. G -----	Nov. 24, 1896			

## 172. MOTIVE POWER.—236. MOTORS—ALTERNATING—STARTERS.

563,440	Berg, E. J -----	July 7, 1896	583,933	Pillsbury, E. S -----	June 8, 1897
568,350	Hunting, F. L -----	Sept. 29, 1896	585,379	Dorman, G. E -----	June 29, 1897

## 172. MOTIVE POWER.—179. MOTORS—HAND-OPERATING DEVICES.

563,424	Sperry, E. A -----	July 7, 1896	565,566	Herdman, F. E -----	Sept. 29, 1896
563,575	Dinkey, A. C -----	July 7, 1896	569,989	Anthony, W. A -----	Oct. 27, 1896
563,743	Clark, J. H -----	July 14, 1896	570,009	Dinkey, A. C -----	Oct. 27, 1896
564,632	Mitchell, A. W -----	July 25, 1896	573,574	Harris, S -----	Dec. 29, 1896
565,867	Warner, E. P -----	Aug. 11, 1896	573,979	Imhoff, L -----	Dec. 29, 1896
566,426	Sperry, E. A -----	Aug. 25, 1896	574,585	Davis, H. P -----	Jan. 12, 1897
568,088	Leonard, H. W -----	Sept. 22, 1896	574,896	Fieske and Smith -----	Jan. 12, 1897

## 172. MOTIVE POWER.—179. HAND-OPERATING DEVICE—Continued.

NO.	NAME.	DATE.	NO.	NAME.	DATE.
575,366	Morgan, W. H.	Jan. 19, 1897	581,557	Huff, S. W.	Apr. 27, 1897
575,454	Bentley, E. M.	Jan. 19, 1897	582,102	Schmidt and Davis	May 4, 1897
575,573	Pieper and Pieper	Jan. 19, 1897	582,114	Davis, H. P.	May 4, 1897
576,332	Valley, G.	Feb. 2, 1897	582,115	Davis, H. P.	May 4, 1897
576,333	Valley, G.	Feb. 2, 1897	582,663	Morgan, W. H.	May 18, 1897
576,384	Thomas and Gignilliat	Feb. 2, 1897	582,772	Von Zweigbergk, T.	May 18, 1897
576,732	Kelly, J. F.	Feb. 9, 1897	583,273	Von Zweigbergk, T.	May 25, 1897
577,037	Jenney, C. D.	Feb. 16, 1897	583,935	Potter and Case	June 8, 1897
577,081	Sperry, E. A.	Feb. 16, 1897	583,938	Priest, E. D.	June 8, 1897
577,950	Gorn, H. A.	Mar. 2, 1897	583,939	Priest and Merrick	June 8, 1897
578,182	Adam, G. F. C.	Mar. 2, 1897	584,856	Davis, H. P.	June 22, 1897
578,464	Parham, E. C.	Mar. 9, 1897	585,444	Leonard, H. W.	June 29, 1897
578,707	Bacon, F. R.	Mar. 16, 1897	585,511	Cuttler, H. H.	June 29, 1897
578,954	Van Emon, B. C.	Mar. 16, 1897	585,512	Cuttler, H. H.	June 29, 1897
579,028	Woods, C. E.	Mar. 16, 1897			

## 172. MOTIVE POWER.—126. MOTORS—RECIPROCATING.

566,537	Robinson, T. C.	Aug. 25, 1896	575,699	Chapin and Holloran	Jan. 26, 1897
568,947	Hicks, T. H.	Oct. 6, 1896	579,511	Briggar, J. S.	Mar. 23, 1897
571,600	Merritt, F. W.	Nov. 17, 1896	581,204	Hefty, B.	Apr. 20, 1897
573,581	Dyer, I. T.	Dec. 22, 1896	582,218	Mosher, J. A.	May 11, 1897

## 172. MOTIVE POWER.—8. STEERING AND PROPULSION.

563,304	Ongley, C. E.				July 7, 1896
---------	---------------	--	--	--	--------------

## 172. MOTIVE POWER.—237. TRANSMISSION OF POWER—ALTERNATING.

563,426	Steinmetz, C. P.	July 7, 1896	568,180	Tesla, N.	Sept. 22, 1896
568,176	Tesla, N.	Sept. 22, 1896	572,510	Hutinu and Leblanc	Dec. 1, 1896
568,178	Tesla, N.	Sept. 22, 1896	572,903	Leonard, H. W.	Dec. 8, 1896
568,179	Tesla, N.	Sept. 22, 1896			

## 172. MOTIVE POWER.—239. TRANSMISSION OF POWER—DIRECT.

565,138	Gale, H. B.	Aug. 4, 1896	582,237	Schimpff, H.	May 11, 1897
569,443	Wood, G. T.	Oct. 13, 1896	584,341	Fiske, B. A.	June 15, 1897
577,670	Tesla, N.	Feb. 23, 1897			

## 172. MOTIVE POWER.—246. TRANSMISSION OF POWER—PHASE-REGULATION.

582,131	Lamme, B. G.				May 4, 1897
---------	--------------	--	--	--	-------------

## 176. ELECTRIC LIGHTING.—80. CUT-OUTS—ELECTROMAGNETIC.

567,605	Parshall, H. F.	Sept. 15, 1896	576,369	Kritzer, C. C.	Feb. 2, 1897
568,960	Drake, C. C.	Oct. 20, 1896	577,447	Packard, G. T.	Feb. 23, 1897
570,068	Stewart, S. A.	Oct. 27, 1896	578,750	Kelly, H. P.	Mar. 16, 1897
570,212	Wurts, A. J.	Oct. 27, 1896	579,366	Robertson, F. C.	Mar. 23, 1897
570,406	Johnson, G. P.	Oct. 27, 1896	579,431	Harrington, W. E.	Mar. 23, 1897
570,414	Wurts, A. J.	Oct. 27, 1896	580,277	Harrington, W. E.	Apr. 6, 1897
570,417	Wurts, A. J.	Oct. 27, 1896	584,463	Creelman, A. L.	June 15, 1897
570,955	Pratt and Ripley	Nov. 10, 1896	585,030	Harrington, W. E.	June 22, 1897
571,097	Powell, W. H.	Nov. 10, 1896			

## 176. ELECTRIC LIGHTING.—190. CUT-OUTS—HANGERS.

582,862	Hoff, C.	May 18, 1897	585,507	Clark, A. J.	June 29, 1897
---------	----------	--------------	---------	--------------	---------------

## 176. ELECTRIC LIGHTING.—79. CUT-OUTS—MECHANICAL.

No.	Name.	Date.	No.	Name.	Date.
565,244	Tobey and Smith	Aug. 4, 1896	578,643	Kineh, D. B	Mar. 9, 1897
569,576	Emmett, G	Oct. 13, 1896	578,695	Gibbs, J. S	Mar. 9, 1897
570,419	Wurts, A. J	Oct. 27, 1896	579,894	Poole, J. W	Mar. 30, 1897
571,734	Rout, B. F	Nov. 17, 1896	582,111	Wurts, A. J	May 4, 1897
573,807	Boardman and Boardman	Dec. 22, 1896	583,963	Winckler, G	Jnne 8, 1897
575,047	Armen, A. H	Jan. 12, 1897			

## 176. ELECTRIC LIGHTING.—154. CUT-OUTS—MECHANICAL—OSCILLATING SNAP.

561,283	Hunt, J. T	July 21, 1896	579,268	Harthan, C. E	Mar. 23, 1897
565,662	Bach, C	Aug. 11, 1896	581,706	Eyanson, G. T	May 4, 1897
566,874	Sinclair, W. E	Sept. 1, 1896	582,303	Newton, W. J	May 11, 1897
570,172	Herrick, A. B	Oct. 27, 1896	582,840	Wright, E. H	May 18, 1897
571,927	Norton, J. T	Nov. 24, 1896	583,452	Brady, T. H	June 1, 1897

## 176. ELECTRIC LIGHTING.—178. CUT-OUTS—MECHANICAL—OSCILLATING SPRING.

566,760	Hornig, J. L	Sept. 1, 1896	580,678	Brady, T. H	Apr. 13, 1897
---------	--------------	---------------	---------	-------------	---------------

## 176. ELECTRIC LIGHTING.—155. CUT-OUTS—MECHANICAL—ROTARY.

563,407	Perkins, C. G	July 7, 1896	569,332	Hart, G. W	Oct. 13, 1896
568,450	Meek, J. E	Sept. 29, 1896	570,418	Wurts, A. J	Oct. 27, 1896
569,299	Perkins, C. G	Oct. 13, 1896	570,878	McElroy, J. F	Nov. 3, 1896
569,300	Powell, W. H	Oct. 13, 1896	572,319	Sterling, C. B	Dec. 1, 1896
569,301	Powell, W. H	Oct. 13, 1896	582,149	Spiker, J. A	May 4, 1897
569,302	Powell, W. H	Oct. 13, 1896	584,185	Moyer, G. L	Jnne 8, 1897
569,309	Thomas, G. B	Oct. 13, 1896			

## 176. ELECTRIC LIGHTING.—78. CUT-OUTS—THERMAL.

564,084	Khotinsky, A. de	July 14, 1896	580,957	Rolfe, C. A	Apr. 20, 1897
569,373	Downes, L. W	Oct. 13, 1896	581,455	Dean, W. W	Apr. 27, 1897
569,803	Scott, C. F	Oct. 20, 1896	581,456	Dean, W. W	Apr. 27, 1897
571,093	Montgomery, E. H	Nov. 10, 1896	581,460	Harrington, W. E	Apr. 27, 1897
574,926	Menchien, J	Jan. 12, 1897	584,009	McClintock, T. S	June 8, 1897
576,040	Dean, W. W	Jan. 26, 1897	584,249	Van Hoevenbergh, H	June 8, 1897
577,822	McElroy, J. F	Feb. 23, 1897			

## 176. ELECTRIC LIGHTING.—194. CUT-OUTS—THERMAL—PLUG.

569,692	Voorhees, G. T	Oct. 20, 1896	580,320	Jones, H. C	Apr. 6, 1897
576,710	Wirt, H. C	Feb. 9, 1897			

## 176. ELECTRIC LIGHTING.—195. CUT-OUTS—THERMAL—SUCCESSIVE.

563,257	Carleton, T. L	July 7, 1896	584,632	Gast, G. H	June 15, 1897
568,971	Erhardt, W	Oct. 6, 1896			

## 176. ELECTRIC LIGHTING.—104. LIGHTS—ARC, GRAVITY FEED.

570,053	Pyle, G. C				Oct. 27, 1896
---------	------------	--	--	--	---------------

## 176. ELECTRIC LIGHTING.—105. LIGHTS—ARC, GRAVITY FEED, CLUTCH.

567,840	McLaughlin, J. M	Sept. 15, 1896	572,777	Spencer and Toerring	Dec. 8, 1896
568,721	Jandus, W	Sept. 29, 1896	579,032	Adams, T. E	Mar. 16, 1897
571,792	Quimby, H. R	Nov. 24, 1896	581,136	Preece, W. L	Apr. 20, 1897
571,946	Eschwei, C	Nov. 24, 1896	584,186	Moyer, G. L	June 8, 1897
571,974	Lean, G. R	Nov. 24, 1896			

## CLASSIFIED INDEX—ELECTRICITY.

11

176. ELECTRIC LIGHTING.—216. LIGHTS—ARC, GRAVITY FEED, DOUBLE DOG CLUTCH.

NO.	NAME.	DATE.	NO.	NAME.	DATE.
573,162	Richter and Eschler-----	Dec. 15, 1896	575,341	Finkbeiner, E -----	Jan. 19, 1897
574,123	Thomson, E -----	Dec. 29, 1896	585,603	Toerring, C. J -----	June 29, 1897

176. ELECTRIC LIGHTING.—106. LIGHTS—ARC, GRAVITY FEED, GEAR-CLUTCH.

563,315	Scribner, C. E -----	July 7, 1896	576,802	Baurlein, H -----	Feb. 9, 1897
563,773	Knight, J. C -----	July 14, 1896	577,760	Lane, G. M -----	Feb. 23, 1897
564,907	Ward, B. B -----	July 28, 1896	577,864	Knowles, E. R -----	Mar. 2, 1897
565,971	Fisher, H. J -----	Aug. 18, 1896	578,233	Guentel, A -----	Mar. 2, 1897
567,691	Salberg, P. R -----	Sept. 15, 1896	579,161	Mosher, J. A -----	Mar. 23, 1897
568,798	Shefbauer, R -----	Oct. 6, 1896	580,256	Davy, W. J -----	Apr. 6, 1897
569,817	Davis, H. P -----	Oct. 20, 1896	582,694	Rushmore, S. W -----	May 18, 1897
573,526	Von Nollendorf, E. H. A. H. R.	Dec. 22, 1896	583,060	La Roche, F. A -----	May 25, 1897
573,617	Queisser, P. F. H -----	Dec. 22, 1896	584,356	Hegner, I. H -----	June 15, 1897
573,830	Mosher, J. A -----	Dec. 22, 1896	584,983	Bureau, A -----	June 22, 1897
574,905	Hood, R. O -----	Jan. 12, 1897			

176. ELECTRIC LIGHTING.—217. LIGHTS—ARC, GRAVITY FEED, PIVOT-DOG CLUTCH.

573,398	Dobrick, A. C -----	Dec. 15, 1896	582,664	Mosher, J. A -----	May 18, 1897
---------	---------------------	---------------	---------	--------------------	--------------

176. ELECTRIC LIGHTING.—218. LIGHTS—ARC, GRAVITY FEED, RING-CLUTCH.

567,355	Palmer, H. R -----	Sept. 8, 1896	574,117	Seymour, H. A -----	Dec. 29, 1896
569,851	Morris, J. E -----	Oct. 20, 1896	574,118	Seymour, H. A -----	Dec. 29, 1896
570,823	Seymour, H. A -----	Nov. 3, 1896	582,665	Mosher, J. A -----	May 18, 1897
570,824	Seymour, H. A -----	Nov. 3, 1896	584,184	Moyer, G. L -----	June 8, 1897

176. ELECTRIC LIGHTING.—108. LIGHTS—ARC, POSITIVE FEED, CLUTCH.

574,045	Scribner, C. E -----				Dec. 29, 1896
---------	----------------------	--	--	--	---------------

176. ELECTRIC LIGHTING.—109. LIGHTS—ARC, POSITIVE FEED, GEAR-CLUTCH.

572,539	Goodyear, C -----	Dec. 8, 1896	573,464	Hopkins, E. P -----	Dec. 22, 1896
---------	-------------------	--------------	---------	---------------------	---------------

176. ELECTRIC LIGHTING.—220. LIGHTS—ARC, POSITIVE FEED, STEP GEAR-CLUTCH.

567,227	Faure and Mac Haffie -----	Sept. 8, 1896	573,962	Colgate, A. E -----	Dec. 29, 1896
568,861	Meade, N. G -----	Oct. 6, 1896			

176. ELECTRIC LIGHTING.—113. LIGHTS—ARC—SPECIAL FEATURES.

564,757	Lucas, A. H -----	July 28, 1896	574,119	Seymour, H. A -----	Dec. 29, 1896
564,771	Armstrong, W. C -----	July 28, 1896	576,103	Fielding, P. H -----	Feb. 2, 1897
564,772	Armstrong, W. C -----	July 28, 1896	576,475	Shesler, D. A -----	Feb. 2, 1897
567,322	Snowden, E. P -----	Sept. 8, 1896	579,267	Harthan, C. E -----	Mar. 23, 1897
571,137	Palmer, H. R -----	Nov. 10, 1896	580,734	Seibold, A. C -----	Apr. 13, 1897
571,791	Quimby, H. R -----	Nov. 24, 1896	583,916	Marchand and Marchand -----	June 8, 1897
571,975	Lean, G. R -----	Nov. 24, 1896	583,955	Thomson, E -----	June 8, 1897
571,976	Lean, G. R -----	Nov. 24, 1896	585,316	Klein, P. H -----	June 29, 1897
572,064	Rae, J -----	Nov. 24, 1896	585,317	Klein and Lavens -----	June 29, 1897
572,354	Buckner, J. B -----	Dec. 1, 1896	585,318	Lavens, E -----	June 29, 1897
573,161	Richter and Eschler-----	Dec. 15, 1896			

176. ELECTRIC LIGHTING.—110. LIGHTS—ARC AND INCANDESCENT.

565,861	Mosher and Bartholomew -----				Aug. 11, 1896
---------	------------------------------	--	--	--	---------------

## 176. ELECTRIC LIGHTING.—180. LIGHTS—CEILING-BLOCK.

No.	NAME.	DATE.	No.	NAME.	DATE.
571,218	Rusby, J. H.	Nov. 10, 1896	578,655	Paiste, H. T.	Mar. 9, 1897

## 176. ELECTRIC LIGHTING.—102. LIGHTS—FILAMENTS AND CARBONS.

570,825	Chester, D. A.	Nov. 3, 1896	582,378	Smith, J. D.	May 11, 1897
575,002	Lodyguinne, A. de	Jan. 12, 1897	584,867	Foote, T. M.	June 22, 1897
575,658	Lodyguinne, A. de	Jan. 19, 1897			

## 176. ELECTRIC LIGHTING.—18. LIGHTS—INCANDESCENT.

563,319	Scribner, C. E.	July 7, 1896	575,772	Thomson, E.	Jan. 26, 1897
563,321	Scribner, C. E.	July 7, 1896	577,159	Dolley, Hawkins, and Lightfoot.	Feb. 16, 1897
566,285	Cazin, F. M. F.	Aug. 18, 1896			
568,262	Lister, J. T.	Sept. 22, 1896	579,227	Fowler, F. L.	Mar. 23, 1897
574,065	Kammer, J. von de	Dec. 29, 1896	583,204	Swan, A.	May 25, 1897
574,301	Bryant, W. C.	Dec. 29, 1896	584,750	Scribner, C. E.	June 15, 1897

## 176. ELECTRIC LIGHTING.—113. LIGHTS—INCANDESCENT—SPECIAL FEATURES.

563,922	Gridley, W. D.	July 14, 1896	573,387	Brown and Brown	Dec. 15, 1896
564,036	Thompson, A. C.	July 14, 1896	573,911	Page, L. H.	Dec. 29, 1896
565,092	Root, Reed, and Hale	Aug. 4, 1896	574,907	Kaysel, E. A. C.	Jan. 12, 1897
566,193	Kuenneth, Schreier, and Kuenneth.	Aug. 18, 1896	575,332	Cronin, M.	Jan. 19, 1897
566,287	Gahlan, E.	Aug. 18, 1896	578,394	Kohn, M. M.	Mar. 2, 1897
566,652	Bosley, W. S.	Aug. 25, 1896	579,808	Dunn and Reagan	Mar. 9, 1897
567,531	Arnold, W. S.	Sept. 8, 1896	580,557	Russell, R. M.	Mar. 30, 1897
567,550	Petererit, A.	Sept. 8, 1896	581,129	Schwerin, R. P.	Apr. 13, 1897
568,209	Rodriguez, A. M.	Sept. 22, 1896	581,199	Nevius, L. W.	Apr. 20, 1897
568,408	Mayer, F. W.	Sept. 29, 1896	581,465	Easton, C. F.	Apr. 20, 1897
568,573	Howe, E. C.	Sept. 29, 1896	583,945	Kirby, J., Jr.	Apr. 27, 1897
568,740	Carson, G. J.	Oct. 6, 1896	583,956	Rodriguez, A. M.	June 8, 1897
570,411	Schmidt, G. A.	Oct. 27, 1896	583,959	Thomson, E.	June 8, 1897
572,124	McElroy, W.	Dec. 1, 1896	585,137	Waegel, W.	June 8, 1897
572,430	Magee, F. A.	Dec. 1, 1896	585,250	Truitt, C.	June 22, 1897
572,431	Magee, F. A.	Dec. 1, 1896	585,321	Bennett, E. H.	June 29, 1897
572,805	Jackson, L. A.	Dec. 8, 1896	585,350	Van de Wiele, L. F.	June 29, 1897
				Noreck, H.	June 29, 1897

## 176. ELECTRIC LIGHTING.—196. LIGHTS—INCANDESCENT—STOPPER.

574,370	Atterbury, T. B.				Jan. 5, 1897
---------	------------------	--	--	--	--------------

## 176. ELECTRIC LIGHTING.—255. LIGHTS—MANTLES.

578,841	Skriwan, E.	Mar. 16, 1897	583,187	Lery, J. B. de	May 25, 1897
578,934	Lery, J. B. de	Mar. 16, 1897	584,694	Mersh, P.	June 15, 1897
581,365	Nienstaedt, E.	Apr. 27, 1897	584,848	Bostian, C. P.	June 22, 1897
582,459	Cottingham, W. H.	May 11, 1897	585,091	Elfeldt, C. R.	June 22, 1897
583,092	Shapleigh, W.	May 25, 1897			

## 176. ELECTRIC LIGHTING.—98. LIGHTS—SOCKETS AND KEYS.

564,723	Soleau, E. F. A.	July 28, 1896	569,727	Taylor, W. L.	Oct. 20, 1896
565,541	Hubbell, H.	Ang. 11, 1896	569,931	Moffatt, J. M.	Oct. 20, 1896
565,862	McFarlane and Edgar	Ang. 11, 1896	570,517	Swan, A.	Nov. 3, 1896
565,991	Jacobson, E. B.	Aug. 18, 1896	573,929	Swan, A.	Dec. 29, 1896
566,892	Chute, C. A.	Sept. 1, 1896	575,322	Benjamin, R. B.	Jan. 19, 1897
568,783	Meek and Powers	Oct. 6, 1896	583,820	Rnssell, S. H.	June 1, 1897
568,919	Pass and Seymour	Oct. 6, 1896	584,321	Bradford, E. M.	June 15, 1897

## CLASSIFIED INDEX—ELECTRICITY.

13

## 176. ELECTRIC LIGHTING.—19. SYSTEMS.

No.	NAME.	DATE.	No.	NAME.	DATE.
11,559	Lean, G. R ----- Reissue	July 21, 1896	568,863	Moore, D. McF -----	Oct. 6, 1896
564,951	Washburn, A. H -----	July 28, 1896	580,663	Elliott, E -----	Apr. 13, 1897
565,776	Moore, D. McF -----	Aug. 11, 1896	580,987	Moore, D. McF -----	Apr. 20, 1897
565,777	Moore, D. McF -----	Aug. 11, 1896	580,988	Moore, D. McF -----	Apr. 20, 1897
565,811	Stillwell, L. B -----	Aug. 11, 1896	584,427	Tabulewitch, V -----	June 15, 1897

## 176. ELECTRIC LIGHTING.—166. SYSTEMS.—AUTOMATIC-REGULATION.

567,982	Hoffmann, E. W. G. C -----				Sept. 22, 1896
---------	----------------------------	--	--	--	----------------

## 176. ELECTRIC LIGHTING.—129. SYSTEMS—CAR.

564,333	Moskowitz, M -----	July 21, 1896	565,913	Morden, W. J -----	Aug. 18, 1896
564,334	Moskowitz, M -----	July 21, 1896	576,933	Ageron, J. A -----	Feb. 9, 1897
564,335	Moskowitz, M -----	July 21, 1896	577,872	Moskowitz, M -----	Mar. 2, 1897
564,336	Moskowitz, M -----	July 21, 1896			

## 176. ELECTRIC LIGHTING.—197. SYSTEMS—DISPLAY.

565,775	Moore, D. McF -----	Aug. 11, 1896	576,129	Julig, L -----	Feb. 2, 1897
567,924	Scott and Shonrord -----	Sept. 15, 1896	576,266	Green, H -----	Feb. 2, 1897
568,204	Norden, M -----	Sept. 22, 1896	576,267	Green, H -----	Feb. 2, 1897
568,720	Hamerschlag, A. A -----	Sept. 29, 1896	577,033	Holland, C -----	Feb. 16, 1897
568,838	Crowley, R. O -----	Oct. 6, 1896	577,816	Arnold, H. V -----	Feb. 23, 1897
572,158	Connell, W -----	Dec. 1, 1896	581,540	Dennis, J -----	Apr. 27, 1897
573,088	Hawkins, F. H -----	Dec. 15, 1896	582,649	Killuer, J. L -----	May 18, 1897

## 176. ELECTRIC LIGHTING.—167. SYSTEMS—HAND-REGULATION.

580,929	Colgate, G. L -----	Apr. 20, 1897	584,029	Woodbridge, J. L -----	June 8, 1897
---------	---------------------	---------------	---------	------------------------	--------------

## 176. ELECTRIC LIGHTING.—198. SYSTEMS—SAFETY.

563,335	Tucker and Loveridge-----	July 7, 1896	570,882	Rowand, L. G -----	Nov. 3, 1896
569,634	Gharky, W. D -----	Oct. 20, 1896	576,383	Sterling, C. B -----	Feb. 2, 1897
570,415	Wurts, A. J -----	Oct. 27, 1896	579,556	Badt, F. B -----	Mar. 30, 1897
570,416	Wurts, A. J -----	Oct. 27, 1896			

## 176. ELECTRIC LIGHTING.—130. SYSTEMS—SECONDARY BATTERY.

565,727	Dickerson, E. N -----	Ang. 11, 1896	578,823	Kitsee, I -----	Mar. 16, 1897
565,740	Goold, F. D' A -----	Aug. 11, 1896	583,323	Bramwell, C. C -----	May 25, 1897
565,741	Goold, F. D' A -----	Aug. 11, 1896	584,649	Patton, W. P -----	Jnne 15, 1897
571,952	Moskowitz, M -----	Nov. 24, 1896	585,620	Cox, H. B -----	June 29, 1897

## 176. ELECTRIC LIGHTING.—131. SYSTEMS—TEST.

574,333	Keilholtz, P. O -----	Dec. 29, 1896	585,287	Rice, E. W -----	June 29, 1897
---------	-----------------------	---------------	---------	------------------	---------------

## 177. ELECTRIC SIGNALING.—1. ALARMS.

563,544	Bateman, T. O -----	July 7, 1896	573,948	Wollin, J. C -----	Dec. 29, 1896
566,235	Sheffield, G. V -----	Aug. 18, 1896	575,093	Babcock, J. F -----	Jan. 12, 1897
568,370	Ransom and Corrothers -----	Sept. 29, 1896	578,716	Buchtel, J -----	Mar. 16, 1897
568,608	Gibbs, W. A -----	Sept. 29, 1896	585,094	Gray, F -----	June 22, 1897
569,851	Baer, H -----	Oct. 20, 1896			

## 177. ELECTRIC SIGNALING.—199. ALARMS—ÆQUOREAL.

No.	Name.	Date.	No.	Name.	Date.
566,612	O'Connor and Turner -----	Aug. 25, 1896	566,613	O'Connor and Turner -----	Aug. 25, 1896

## 177. ELECTRIC SIGNALING.—200. ALARMS—BAROKINETIC.

564,485	Hickes, O. H-----	July 21, 1896	582,742	Horan, J. J -----	May 18, 1897
---------	-------------------	---------------	---------	-------------------	--------------

## 177. ELECTRIC SIGNALING.—2. ALARMS—BURGLAR.

567,872	Weaver, O. B-----	Sept. 15, 1896	580,552	Munroe, D. M-----	Apr. 13, 1897
568,205	Norden, M-----	Sept. 22, 1896	583,405	Corbett, E. S-----	May 25, 1897
570,616	Steinkoenig, F-----	Nov. 3, 1896	583,644	Fraser, J. R-----	June 1, 1897
570,906	Coleman, C-----	Nov. 10, 1896	584,202	Arnold, W. T-----	June 8, 1897
574,856	Trott, G. V-----	Jan. 5, 1897	584,798	Sutton and Steele-----	June 22, 1897
578,893	McDermott, M. P-----	Mar. 23, 1897	585,171	Arnold, W. T-----	June 29, 1897

## 177. ELECTRIC SIGNALING.—201. ALARMS—BURGLAR, SAFE.

567,845	Ward, W. H-----				Sept. 15, 1896
---------	-----------------	--	--	--	----------------

## 177. ELECTRIC SIGNALING.—3. ANNUNCIATORS.

564,344	Stickle, S. C-----	July 21, 1896	572,562	Opdyke, S. B-----	Dec. 8, 1896
564,392	Peek, C. M-----	July 21, 1896	572,563	Opdyke, S. B-----	Dec. 8, 1896
564,746	Gould, C. C-----	July 28, 1896	573,592	Herzog and Wheeler-----	Dec. 22, 1896
567,599	Kips, J-----	Sept. 15, 1896	577,532	Miranda, A. R-----	Feb. 23, 1897
572,561	Opdyke, S. B-----	Dec. 8, 1896	582,461	Dean, W. W-----	May 11, 1897

## 177. ELECTRIC SIGNALING.—139. ANNUNCIATORS—DROP.

568,423	Beach, C. E-----	Sept. 29, 1896	573,903	McGaby, J. A-----	Dec. 29, 1896
568,430	Cowhig, J. J-----	Sept. 29, 1896	584,414	Scribner, C. E-----	June 15, 1897
572,378	Schwagerman, W-----	Dec. 1, 1896			

## 177. ELECTRIC SIGNALING.—157. ANNUNCIATORS—DROP SYSTEMS

563,269	Garl, M-----	July 7, 1896	579,473	Davidson and Armstrong -----	Mar. 23, 1897
570,967	Stamm, J-----	Nov. 10, 1896	580,931	Davidson and Armstrong -----	Apr. 20, 1897

## 177.—ELECTRIC SIGNALING.—140. ANNUNCIATORS—STEP-BY-STEP.

564,314	Rogers, J. B-----	July 21, 1896	572,057	Jennings, F. A-----	Nov. 24, 1896
568,444	Kelch, W. M-----	Sept. 29, 1896	574,327	Hunter and Higgins -----	Dec. 29, 1896
571,445	Jennings, F. A-----	Nov. 17, 1896			

## 177. ELECTRIC SIGNALING.—158. ANNUNCIATORS—TIME.

565,761	Lipscomb, H. E-----	Aug. 11, 1896	584,173	Chance, A. B-----	June 8, 1897
577,128	Fenerstein, P. G-----	Feb. 16, 1897			

## 177. ELECTRIC SIGNALING.—7. BELLS.

566,843	Cole, F. W-----	Sept. 1, 1896	575,059	Ewbank, H. B-----	Jan. 12, 1897
568,668	Davey, F-----	Sept. 29, 1896	575,156	Holdsworth and Dodsworth-----	Jan. 12, 1897
568,693	Mills, N. T-----	Sept. 29, 1896	581,528	Barton, J. J-----	Apr. 27, 1897
570,508	SegerdaHL, R-----	Nov. 3, 1896	583,305	Haskins, J. T-----	May 25, 1897
572,220	Scribner, C. E-----	Dec. 1, 1896	584,416	Scribner, C. E-----	June 15, 1897

## 177. ELECTRIC SIGNALING.—26. INDICATORS.

No.	Name.	Date.	No.	Name.	Date.
563,501	Milbourne, J. P -----	July 7, 1896	572,080	Wilshire and Massie -----	Nov. 24, 1896
563,724	Arthnr, J. M -----	July 14, 1896	579,075	Owen, Williams, and Donaldson.	Mar. 16, 1897
564,168	Tower, G. A -----	July 14, 1896			
568,859	Lodge and Lodge -----	Oct. 6, 1896			

## 177. ELECTRIC SIGNALING.—159. INDICATORS—STATION.

567,643	Frear, H. P -----	Sept. 15, 1896	573,350	Palfy, A -----	Dec. 15, 1896
567,911	Merritt, O. J -----	Sept. 15, 1896	576,201	Leeee and Bullock -----	Feb. 2, 1897
567,912	Merritt, O. J -----	Sept. 15, 1896	576,854	Keen and Roberts -----	Feb. 9, 1897
571,301	Couner, D. E -----	Nov. 10, 1896	583,304	Goetz, A. C -----	May 25, 1897
571,738	Alwies, H -----	Nov. 24, 1896	584,700	Orr and Fugh -----	June 15, 1897

## 177. ELECTRIC SIGNALING.—38. RAILWAY.

563,442	Bogart, S. S -----	July 7, 1896	575,908	Schreunder, J. G -----	Jan. 26, 1897
563,924	Hausel, C -----	July 14, 1896	577,949	Gordon and Weir -----	Mar. 2, 1897
566,499	Coleman, J. P -----	Aug. 25, 1896	578,236	Hall, W. P -----	Mar. 2, 1897
568,644	Timpson and Rankin -----	Sept. 29, 1896	578,402	Heckard and Ogden -----	Mar. 9, 1897
568,993	Sykes and O'Donnell -----	Oct. 6, 1896	578,442	Bogart, S. S -----	Mar. 9, 1897
570,062	Schreunder, J. G -----	Oct. 27, 1896	579,170	Newsom, J. N -----	Mar. 23, 1897
571,107	Coleman, J. P -----	Nov. 10, 1896	580,973	Geisenhenner, C. A -----	Apr. 20, 1897
573,207	Coleman, J. P -----	Dec. 15, 1896	581,430	Roberts, R. S -----	Apr. 27, 1897
574,215	Partington, C -----	Dec. 29, 1896	581,802	Alsop, C. R -----	May 4, 1897
575,065	Henquin, N -----	Jan. 12, 1897	582,615	Bezer, H -----	May 18, 1897
575,733	Ramsey, W. McC -----	Jan. 26, 1897			

## 177. ELECTRIC SIGNALING.—147. RAILWAY—BLOCK.

564,706	Lüpke, P -----	Jnly 28, 1896	567,816	Skeen, N -----	Sept. 15, 1896
565,515	Shoecraft, J -----	Aug. 11, 1896	569,424	Parrish, H. A -----	Oct. 13, 1896
567,328*	Farmer, J. R -----	Sept. 8, 1896	570,046	Parrish, A. A -----	Oct. 27, 1896
567,759	Wilkinson, C. P -----	Sept. 15, 1896	576,166	Shoecraft, J -----	Feb. 2, 1897
567,760	Wilkinson, C. P -----	Sept. 15, 1896	578,840	Selden, C -----	Mar. 16, 1897

## 177. ELECTRIC SIGNALING.—146. RAILWAY—BLOCK SYSTEMS.

565,933	Smith, A. P -----	Aug. 18, 1896	568,606	Garing, A -----	Sept. 29, 1896
566,253	Beckwith, D. O -----	Aug. 18, 1896	569,246	Smith, L. C -----	Oct. 13, 1896

## 177. ELECTRIC SIGNALING.—149. RAILWAY—CAB—SECTIONAL RAIL.

563,374	Harris and Harris -----	July 7, 1896	567,984	Knollmann, G. F -----	Sept. 22, 1896
---------	-------------------------	--------------	---------	-----------------------	----------------

## 177. ELECTRIC SIGNALING.—150. RAILWAY—SECTIONAL RAIL.

564,683	Daves, W -----	July 28, 1896	570,089	Gibbs, G -----	Oct. 27, 1896
565,150	Williams, J. T -----	Aug. 4, 1896	570,700	Dixon, T. B -----	Nov. 3, 1896
565,839	Coleman, J. P -----	Aug. 11, 1896	571,472	Dixon, T. B -----	Nov. 17, 1896
566,503	Culgan, J. P -----	Aug. 25, 1896	571,507	Buchanan, J. P -----	Nov. 17, 1896
566,541	Schreunder, J. G -----	Ang. 25, 1896	573,496	Tilghman, B. C., Jr -----	Dec. 22, 1896
566,887	Berrigan, W. H -----	Sept. 1, 1896	573,932	Thorp, A. H -----	Dec. 29, 1896
567,753	Selden, C -----	Sept. 15, 1896	574,953	Skeen, R -----	Jan. 12, 1897
567,754	Selden, C -----	Sept. 15, 1896	574,954	Skeen, R -----	Jan. 12, 1897
569,263	Wayland, J -----	Oct. 13, 1896	575,805	Freeman and Slater -----	Jan. 26, 1897
569,264	Wayland, J -----	Oct. 13, 1896	577,635	Alexander and Gillham -----	Feb. 23, 1897
569,265	Wayland, J -----	Oct. 13, 1896	578,853	Bierman, H -----	Mar. 16, 1897
569,551	Donbavand, J. E -----	Oct. 13, 1896	579,929	McBrien, F -----	Mar. 30, 1897
569,709	Gibbs, G -----	Oct. 20, 1896	579,933	Schreunder and Coleman -----	Mar. 30, 1897

## 177. ELECTRIC SIGNALING.—151. RAILWAY—TRACK INSTRUMENTS.

No.	Name.	Date.	No.	Name.	Date.
572,268	Morgan, B. B -----	Dec. 1, 1896	580,519	Brinkerhoff, F. M-----	Apr. 13, 1897
575,601	French, W. F -----	Jan. 19, 1897			

## 175. SPECIAL APPLICATIONS.—4. APPLICATIONS—GENERAL.

571,739	Badt, F. E -----				Nov. 24, 1896
---------	------------------	--	--	--	---------------

## 175. SPECIAL APPLICATIONS.—21. ELECTROMAGNETS.

566,918	Le Blanc, A -----	Sept. 1, 1896	578,673	Boetcher, A -----	Mar. 9, 1897
569,262	Wayland, J -----	Oct. 13, 1896	580,276	Harrington, W. E-----	Apr. 6, 1897
575,679	Hussey, C. A -----	Jan. 19, 1897			

## 175. SPECIAL APPLICATIONS.—115. IGNITING DEVICES—AUTOMATIC.

571,288	Schmidt, E-----	Nov. 10, 1896	584,056	Jolles, B-----	June 8, 1897
---------	-----------------	---------------	---------	----------------	--------------

## 175. SPECIAL APPLICATIONS.—116. IGNITING DEVICES—MANUAL.

565,571	Jenny, F. W. S-----	Aug. 11, 1896	578,420	Pike, F. N -----	Mar. 9, 1897
567,971	Galbraith, G. J-----	Sept. 22, 1896	581,327	Borradaile, L. L -----	Apr. 27, 1897
569,785	Cram, W. E -----	Oct. 20, 1896	581,718	Handshy, H. M -----	May 4, 1897
571,769	Krieger, G. F-----	Nov. 24, 1896	582,085	Pike, F. N -----	May 4, 1897
574,889	Dawson, J. W -----	Jan. 12, 1897	583,208	Brown, G. J -----	May 25, 1897
577,279	Armstrong, J. T -----	Feb. 16, 1897	583,303	Fargo, W. H -----	May 25, 1897
578,004	Czarnickow, A-----	Mar. 2, 1897	583,630	Parke, J. J -----	June 1, 1897

## 175. SPECIAL APPLICATIONS.—91. IGNITING DEVICES—PORTABLE.

567,928	Van Hoevenbergh, H-----				Sept. 15, 1896
---------	-------------------------	--	--	--	----------------

## 178. TELEGRAPHY.—46. TELEGRAPHS—AUTOMATIC.

565,657	Ader, C -----	Aug. 11, 1896	577,534	Muirhead, A -----	Feb. 23, 1897
566,298	Cox and Crowley-----	Aug. 25, 1896	577,540	Taylor, H. A -----	Feb. 23, 1897
568,675	Greville-Williams, R-----	Sept. 29, 1896	578,126	Weiny, R. H -----	Mar. 2, 1897
570,072	Tiffauy, G. S -----	Oct. 27, 1896	579,633	Buckingham and Gardam-----	Mar. 30, 1897
573,286	Piedfort, A -----	Dec. 15, 1896	583,026	Burke, C. G -----	May 25, 1897
575,419	Delaney, P. B -----	Jan. 19, 1897	585,319	McPherson, L. O -----	June 29, 1897
577,373	Anustutz, N. S-----	Feb. 16, 1897			

## 178. TELEGRAPHY.—45. TELEGRAPHS—CIRCUITS AND SYSTEMS.

568,374	Sellner, L -----	Sept. 29, 1896	578,275	Stone, J. S -----	Mar. 2, 1897
571,695	Scott, F. P -----	Nov. 17, 1896	578,867	Farley, H. N -----	Mar. 16, 1897
572,639	Kitsee, I -----	Dec. 8, 1896	584,462	Creelman, A. L -----	June 15, 1897
576,243	Vreede, C -----	Feh. 2, 1897	584,465	Creelman, A. L -----	June 15, 1897
577,214	Stone, J. S -----	Feh. 16, 1897	584,466	Creelman, A. L -----	June 15, 1897

## 178. TELEGRAPHY.—48. TELEGRAPHS—DUPLEX.

571,948	Hildburgh, L. W -----				Nov. 24, 1896
---------	-----------------------	--	--	--	---------------

## 178. TELEGRAPHY.—50. TELEGRAPHS—FIRE.

563,324	Scrihner, C. E -----	July 7, 1896	573,924	Rogers, A. C -----	Dec. 29, 1896
568,335	Cornell, C. W -----	Sept. 29, 1896	579,482	Hohhs, J. D -----	Mar. 23, 1897
568,494	Rowand, L. G -----	Sept. 29, 1896	584,297	Stack, J. T -----	Jnne 8, 1897
568,495	Rowand, L. G -----	Sept. 29, 1896	585,072	Alexander, R. E -----	June 22, 1897
571,441	Hibbard, W. H -----	Nov. 17, 1896			

## CLASSIFIED INDEX—ELECTRICITY.

17

## 178. TELEGRAPHY.—160. FIRE—AUTOMATIC.

No.	NAME.	DATE.	No.	NAME.	DATE.
563,586	Frost, J. W -----	July 7, 1896	565,673	Denuis, W. L -----	Aug. 11, 1896
563,832	Young, J -----	July 14, 1896	568,493	Rowand, L. G -----	Sept. 29, 1896
564,229	Speer, E. A -----	July 21, 1896	578,077	Burgher, C -----	Mar. 2, 1897
565,202	Drake, F -----	Aug. 4, 1896	580,927	Buell, C. E -----	Apr. 20, 1897

## 178. TELEGRAPHY.—163. FIRE—NON-INTERFERING.

563,336	Turner and Chapman-----	July 7, 1896	571,950	Milliken, G. F-----	Nov. 24, 1896
565,086	Milliken, G. F -----	Aug. 4, 1896	572,607	Knowles, G -----	Dec. 8, 1896

## 178. TELEGRAPHY.—165. FIRE—REPEATERS.

575,025	Chapman, W. M -----				Jan. 12, 1897
---------	---------------------	--	--	--	---------------

## 178. TELEGRAPHY.—161. FIRE—VARIABLE SIGNAL—DIAL.

573,221	Herzog and Wheeler -----	Dec. 15, 1896	584,384	Macklin, A. B-----	June 15, 1897
575,114	Noyes, B. J -----	Mar. 2, 1897			

## 178. TELEGRAPHY.—103. FIRE ALARMS AND EXTINGUISHERS.

563,474	Frost, J. W -----				July 7, 1896
---------	-------------------	--	--	--	--------------

## 178. TELEGRAPHY.—52. PERFORATING.

565,512	Buckingham, Germann, and Gardam.	Sept. 29, 1896	568,516	Buckingham, Gardam, and Germanu.	Sept. 29, 1896
565,514	Buckingham and Germann--	Sept. 29, 1896	584,722	Burke, C. G -----	June 15, 1897
568,515	Buckingham and Germann--	Sept. 29, 1896			

## 178. TELEGRAPHY.—54. PRINTING.

565,128	Yetman, C. E -----	Aug. 4, 1896	580,617	Kreusler, H -----	Apr. 13, 1897
572,609	Merritt and Joy -----	Dec. 8, 1896	582,157	Eaton, C. F -----	May 4, 1897
573,591	Herzog and Wheeler -----	Dec. 22, 1896			

## 178. TELEGRAPHY.—141. PRINTING—MULTIPLE WHEEL.

568,513	Buckingham and Germann--	Sept. 29, 1896	574,994	Hoffman, B -----	Jan. 12, 1897
570,552	Higgins, F. H. W -----	Nov. 3, 1896	581,411	Burry, J -----	Apr. 27, 1897

## 178. TELEGRAPHY.—142. PRINTING—WHEEL.

572,760	Kamm, L -----	Dec. 8, 1896	579,676	Graham, F. A -----	Mar. 30, 1897
575,530	Kleber, O. L -----	Jan. 26, 1897	581,815	Eaton, C. F -----	May 4, 1897

## 178. TELEGRAPHY.—55. QUADRUPLEX.

583,418	Roberson, O. R -----				May 25, 1897
---------	----------------------	--	--	--	--------------

## 178. TELEGRAPHY.—56. RAILWAY CARS.

567,223	Young and Norton -----	Sept. 8, 1896	585,342	Parrish, M. W -----	June 29, 1897
573,716	Siuger and Siuger-----	Dec. 22, 1896			

## CLASSIFIED INDEX—ELECTRICITY.

## 178. TELEGRAPHY.—10. CIRCUIT CLOSERS.

No.	Name.	Date.	No.	Name.	Date.
568,013	Barney, T. R.	Sept. 22, 1896	573,723	Thomson, H. C.	Dec. 22, 1896
568,451	Meek, J. E.	Sept. 29, 1896	575,523	Mailloux, C. O.	Jan. 19, 1897
569,882	Monlart, A. J.	Oct. 20, 1896	578,345	Maxim, H. F.	Mar. 9, 1897
572,923	Williams, E. C.	Dee. 8, 1896	580,092	Moore, R. L.	Apr. 6, 1897

## 178. TELEGRAPHY.—202. CIRCUIT CLOSERS—BURGLAR.

567,176	Unger, P.	Sept. 8, 1896	569,861	Dowden, C. H.	Oct. 20, 1896
---------	-----------	---------------	---------	---------------	---------------

## 178. TELEGRAPHY.—203. CIRCUIT CLOSERS—LOCK.

563,960	Hawes and Hawes	July 14, 1896	585,138	Vandeveldé, P. V.	Jnne 22, 1897
580,680	Doscher, J. H.	Apr. 13, 1897			

## 178. TELEGRAPHY.—128. CIRCUIT CLOSERS—THERMAL.

563,475	Frost, J. W.	July 7, 1896	572,081	Yonng, J. A.	Nov. 24, 1896
563,831	Woolley, L. G.	Jnly 14, 1896	573,134	Burgher, C.	Dec. 15, 1896
564,567	Maxim, H. F.	July 21, 1896	573,944	West, A. H.	Dec. 29, 1896
565,053	Tisdale, C. D.	Aug. 4, 1896	579,393	Hunt, L.	Mar. 23, 1897
565,178	Reed, H. A.	Aug. 4, 1896	581,544	Enholm and Beck	Apr. 27, 1897
565,188	Tisdale, C. D.	Aug. 4, 1896	582,093	Kiley, G. B.	May 4, 1897
565,410	Gonld, J. D.	Aug. 4, 1896	584,382	Luraschi, A.	June 15, 1897
570,258	Lowman, B. J.	Oct. 27, 1896			

## 178. TELEGRAPHY.—12. CONDENSERS.

567,818	Tesla, N.	Sept. 15, 1896	575,653	Lee, Westcott, and Robes	Jan. 19, 1897
---------	-----------	----------------	---------	--------------------------	---------------

## 178. TELEGRAPHY.—29. KEYS.

568,103	Runkle, O. M.	Sept. 22, 1896	581,135	Porter, M. M.	Apr. 20, 1897
---------	---------------	----------------	---------	---------------	---------------

## 178. TELEGRAPHY.—30. LIGHTNING ARRESTERS.

566,011	Oelschläger and Schrottke	Aug. 18, 1896	571,669	Khotinsky, A.	Nov. 17, 1896
568,459	Potter, W. B.	Sept. 29, 1896	574,978	Wurts, A.	Jan. 12, 1897
570,808	Johl and Christian	Nov. 3, 1896	577,371	Patten, F. J.	Feb. 16, 1897
571,099	Skinner, J. E.	Nov. 10, 1896	578,981	Freeman, W. K.	Mar. 16, 1897
571,103	Wurts, A. J.	Nov. 10, 1896	580,637	Blackmore, S. P.	Apr. 13, 1897
571,109	Culgan, J. P.	Nov. 10, 1896	583,987	Ekstrom, Å.	June 8, 1897

## 178. TELEGRAPHY.—214. LIGHTNING ARRESTERS—MAGNETIC.

567,137	Hewlett, E. M.				Sept. 8, 1896
---------	----------------	--	--	--	---------------

## 178. TELEGRAPHY.—35. MORSE REGISTER.

578,113	Noyes, B. J.	Mar. 2, 1897	578,386	Beach, C. E.	Mar. 9, 1897
578,115	Noyes, B. J.	Mar. 2, 1897			

## 178. TELEGRAPHY.—41. RELAYS AND SOUNDERS.

568,527	Dunn, D. M.	Sept. 29, 1896	572,944	Alexander and Gillham	Dec. 15, 1896
571,351	Field, S. D.	Nov. 17, 1896	584,464	Creelman, A. L.	Jnne 15, 1897

## CLASSIFIED INDEX—ELECTRICITY.

19

## 178. TELEGRAPHY.—42. REPEATERS.

No.	Name.	Date.	No.	Name.	Date.
571,119	Hibbard, W. W -----	Nov. 10, 1896	583,423	Wheeler, A. D-----	May 25, 1897
578,997	Leiser, C. W -----	Mar. 16, 1897			

## 178. TELEGRAPHY.—69. TRANSMITTERS.

566,917	Le Blanc, A -----				Sept 1, 1896
---------	-------------------	--	--	--	--------------

## 179. TELEPHONY.—82. TELEPHONES—ANTI-INDUCTION DEVICES.

568,964	Thompson, S. P -----				Oct. 6, 1896
---------	----------------------	--	--	--	--------------

## 179. TELEPHONY.—81. TELEPHONES—CONDUCTOR—ANTI-INDUCTIVE.

571,706	Thompson, S. P -----	Nov. 17, 1896	571,707	Thompson, S. P -----	Nov. 17, 1896
---------	----------------------	---------------	---------	----------------------	---------------

## 179. TELEPHONY.—57. TELEPHONES—CALLS.

569,807	Williams, J. T -----	Oct. 20, 1896	577,102	Dean, W. W -----	Feb. 16, 1897
574,245	Houts and Nilson -----	Dec. 29, 1896	577,920	Heckard and Ogden -----	Mar. 2, 1897
576,472	Robes, E. C -----	Feb. 2, 1897	583,039	Fisk, P. H -----	May 25, 1897

## 179. TELEPHONY.—143. TELEPHONES—CALLS—REED.

584,352	Harter, W. H -----				June 15, 1897
---------	--------------------	--	--	--	---------------

## 179. TELEPHONY.—144. TELEPHONES—CALLS—STEP-BY-STEP.

563,443	Bogart, S. S -----	July 7, 1896	567,112	Sullivan, J. A -----	Sept. 1, 1896
566,784	Merrick and Brook -----	Sept. 1, 1896	572,840	Swan, A. L -----	Dec. 8, 1896
566,896	Duppler, A -----	Sept. 1, 1896	579,169	Newsom, J. N -----	Mar. 23, 1897
566,951	Webb, H. L -----	Sept. 1, 1896	581,561	Mass, H. W -----	Apr. 27, 1897

## 179. TELEPHONY.—145. TELEPHONES—CALLS—STRENGTH AND POLARITY.

566,914	Le Blanc, A -----	Sept. 1, 1896	578,380	Williams and Abbott -----	Mar. 9, 1897
566,915	Le Blanc, A -----	Sept. 1, 1896	582,107	Whittemore, Barrett, and Craft.	May 4, 1897
566,916	Le Blanc, A -----	Sept. 1, 1896			

## 179. TELEPHONY.—58. TELEPHONES—DETAILS.

564,371	Flenry, C. M -----	July 21, 1896	569,018	Gartner, A -----	Oct. 6, 1896
565,965	Cnrran, J -----	Aug. 18, 1896	572,108	Farrington, De W. C -----	Dec. 1, 1896
566,334	Münch, A -----	Aug. 25, 1896	579,790	Cohn and Martin -----	Mar. 30, 1897
568,346	Given, J. L -----	Sept. 29, 1896	582,901	Dennis, C. W -----	May 18, 1897

## 179. TELEPHONY.—59. TELEPHONES—ELECTRIC.

567,688	Rankin, R. F -----	Sept. 15, 1896	582,200	Green, R. P -----	May 11, 1897
572,182	Ray, F. A -----	Dec. 1, 1896			

## 179. TELEPHONY.—184. TELEPHONES—GRANULAR.

No.	Name.	Date.	No.	Name.	Date.
563,395	Moore, W. A -----	July 7, 1896	575,869	Barnum, R. T -----	Jan. 26, 1897
566,416	Schwarze, C. J -----	Aug. 25, 1896	575,887	Hardegen, P -----	Jan. 26, 1897
567,077	Burchell, N. L -----	Sept. 1, 1896	575,896	Kotyra, M -----	Jan. 26, 1897
567,132	Green, R. P -----	Sept. 8, 1896	576,551	Clark and Clark -----	Feb. 9, 1897
567,324	Stromberg and Carlson -----	Sept. 8, 1896	576,813	Gilliland, J. F -----	Feb. 9, 1897
568,526	Drawbaugh, D -----	Sept. 29, 1896	578,520	Lombard, N -----	Mar. 9, 1897
569,908	Alexander, H. C -----	Oct. 20, 1896	579,003	Moore, W. J -----	Mar. 16, 1897
571,399	Rowan, D. N -----	Nov. 17, 1896	579,699	Davis, A. W. S -----	Mar. 30, 1897
571,504	Barkalow and Crawford -----	Nov. 17, 1896	580,434	Stromberg and Carlson -----	Apr. 13, 1897
572,188	Appleman, L. D -----	Dec. 1, 1896	582,513	Alexander, H. C -----	May 11, 1897
572,756	Hunter and Higgins -----	Dec. 8, 1896	583,737	Gould, C. C -----	June 15, 1897
572,775	Schwarze, C. J -----	Dec. 8, 1896	584,618	Alexander, H. C -----	June 15, 1897
573,294	Ray, F. A -----	Dec. 15, 1896	584,810	Barnum, R. S -----	June 22, 1897
573,356	Pullen, L. W -----	Dec. 15, 1896	584,868	Gent, Stavely, and Parsons -----	June 22, 1897
574,761	Rawson, S. B -----	Jan. 5, 1897			

## 179. TELEPHONY.—185. TELEPHONES—MULTIPLE ELECTRODE.

563,935	Martin, H. A -----	July 14, 1896	566,022	Ruebel, C. A. E -----	Aug. 18, 1896
564,196	Hinkly, E. A -----	July 21, 1896	574,901	Gould, C. C -----	Jan. 12, 1897

## 179. TELEPHONY.—60. TELEPHONES—MAGNETIC.

571,190	Harrison and Harrison -----	Nov. 10, 1896	578,670	Weigel, J -----	Mar. 9, 1897
571,907	Scribner, C. E -----	Nov. 24, 1896	580,851	Dye, L. E -----	Apr. 20, 1897
572,981	Goulin, F. L -----	Dec. 15, 1896	581,350	Keelyn, J. E -----	Apr. 27, 1897
574,654	Barnum, R. S -----	Jan. 5, 1897	581,406	Mortou, W. J -----	Apr. 27, 1897
575,394	Field, S. D -----	Jan. 19, 1897	582,522	Dunderdale, C. F -----	May 11, 1897

## 179. TELEPHONY.—100. TELEPHONES—SUPPORTS.

568,577	Marcuse, H -----	Sept. 29, 1896	573,441	Christopher, W. O -----	Dec. 22, 1896
569,376	Gordon, A. J -----	Oct. 13, 1896	583,142	Duque and Cosgrove -----	May 25, 1897
570,204	Gartner, A -----	Oct. 27, 1896	584,871	Gordon, A. J -----	June 22, 1897

## 179. TELEPHONY.—85. TELEPHONES—SWITCHBOARDS.

563,327	Scribner and Warner -----	July 7, 1896	572,748	Fordyce, E. A -----	Dec. 8, 1896
563,326	Scribner, C. E -----	July 7, 1896	574,224	Scribner, C. E -----	Dec. 29, 1896
563,333	Thayer, H. B -----	July 7, 1896	574,281	Scribner and McBerty -----	Dec. 29, 1896
565,046	Stromberg and Carlson -----	Aug. 4, 1896	579,036	Bossong, F. E -----	Mar. 16, 1897
568,840	Davis, L. W -----	Oct. 6, 1896	584,418	Scribner, C. E -----	June 15, 1897

## 179. TELEPHONY.—71. TELEPHONES—SWITCHES.

563,614	Piel, J -----	July 7, 1896	571,162	Harrison, E. M -----	Nov. 10, 1896
567,170	Rousseau, D -----	Sept. 8, 1896	573,884	Keith, A. E -----	Dec. 29, 1896
567,794	Ries, E. E -----	Sept. 15, 1896	578,771	Rawson, S. B -----	Mar. 16, 1897
570,773	Sandbeck, C. N -----	Nov. 3, 1896	585,560	Dunderdale, C. F -----	June 29, 1897

## 179. TELEPHONY.—64. TELEPHONES—SYSTEMS.

563,322	Scribner, C. E -----	July 7, 1896	578,992	Holman, S. W -----	Mar. 16, 1897
564,456	Scribner and McBerty -----	July 21, 1896	581,044	Smith, W. F -----	Apr. 20, 1897
565,080	Khotinsky, A. de -----	Aug. 4, 1896	581,446	West, H. C -----	Apr. 27, 1897
572,219	Scribner, C. E -----	Dec. 1, 1896	582,773	Absterdam, J -----	May 18, 1897
574,046	Scribner, C. E -----	Dec. 29, 1896			

## 179. TELEPHONY.—101. TELEPHONES—SYSTEMS—AUTOMATIC.

No.	Name.	Date.	No.	Name.	Date.
570,112	Tiffany, G. S -----	Oct. 27, 1896	574,707	Bowman, L. G -----	Jan. 5, 1897
573,859	Callender, R -----	Dec. 29, 1896	582,578	Clark, Ellacott, and Johnson	May 11, 1897

## 179. TELEPHONY.—186. TELEPHONES—SYSTEMS—CENTRAL.

563,325	Scribner, C. E -----	July 7, 1896	574,255	McBerty, F. R -----	Dec. 29, 1896
563,692	Stone, J. S -----	July 7, 1896	574,280	Scribner and McBerty -----	Dec. 29, 1896
564,328	Dean, W. W -----	July 21, 1896	574,579	Scribner and McBerty -----	Jan. 5, 1897
564,745	Gould, C. C -----	July 28, 1896	574,642	Swarts, H. J -----	Jan. 5, 1897
565,217	Reed, H. A -----	Aug. 4, 1896	575,131	Scribner, C. E -----	Jan. 12, 1897
565,627	Meyer, A. F. W -----	Aug. 11, 1896	575,186	Weckel, J. H -----	Jan. 12, 1897
566,648	Bennett, Somerville, and McLean.	Ang. 25, 1896	577,101	Dean, W. W -----	Feb. 16, 1897
			577,231	Bradshaw, W. L -----	Feb. 16, 1897
572,221	Scribner, C. E -----	Dec. 1, 1896	578,121	Strong, J. R -----	Mar. 2, 1897
572,222	Scribner, C. E -----	Dec. 1, 1896	579,239	Meissner, W. O -----	Mar. 23, 1897
573,117	Wales and Arnold -----	Dec. 15, 1896	580,166	Stone, J. S -----	Apr. 6, 1897
573,575	Dean, W. W -----	Dec. 22, 1896	580,853	Eagan, C. E -----	Apr. 20, 1897
573,576	Dean, W. W -----	Dec. 22, 1896	581,246	Buell, C. E -----	Apr. 20, 1897
573,992	McBerty, F. R -----	Dec. 29, 1896	584,393	McBerty, F. R -----	Jnne 15, 1897
574,005	Scribner, C. E -----	Dec. 29, 1896	584,415	Scribner, C. E -----	June 15, 1897
574,222	Scribner, C. E -----	Dec. 29, 1896	584,417	Scribner, C. E -----	June 15, 1897
574,225	Scribner, C. E -----	Dec. 29, 1896	584,819	Garl, M -----	Jnne 22, 1897

## 179. TELEPHONY.—133. TELEPHONES—SYSTEMS—DIVIDED CENTRAL.

565,968	Durant, Dean, and Childs -----	Aug. 18, 1896	574,279	Scribner, C. E -----	Dec. 29, 1896
572,810	Hill, M. F -----	Dec. 8, 1896	579,299	Keely and Miller -----	Mar. 23, 1897

## 179. TELEPHONY.—187. TELEPHONES—SYSTEMS—HOUSE.

563,920	Graham, A -----	July 14, 1896	570,840	Brooks, M -----	Nov. 3, 1896
566,762	Hovey, E. G -----	Sept. 1, 1896			

## 179. TELEPHONY.—134. TELEPHONES—SYSTEMS—INTERMEDIATE SUBSTATION.

563,294	McBerty, F. R -----	July 7, 1896	565,385	Garl, M -----	Aug. 4, 1896
563,318	Scribner, C. E -----	July 7, 1896	569,401	Barrett, J. A -----	Oct. 13, 1896
563,577	Patterson, W. R -----	July 14, 1896	582,913	Garl, M -----	May 18, 1897

## 179. TELEPHONY.—136. TELEPHONES—SYSTEMS—MULTIPLE SWITCHBOARD—DIVIDED CENTRAL.

566,529	Wietlisbach, V -----	Sept. 1, 1896	569,470	Raverot and Hess -----	Oct. 13, 1896
567,404	McBerty, F. R -----	Sept. 8, 1896	573,601	Jones, F. W -----	Dec. 22, 1896

## 179. TELEPHONY.—137. TELEPHONES—SYSTEMS—MULTIPLE SWITCHBOARD—TEST.

563,250	Bell, O. A -----	July 7, 1896	571,906	Scribner, C. E -----	Nov. 24, 1896
563,320	Scribner, C. E -----	July 7, 1896	571,910	Scribner, C. E -----	Nov. 24, 1896
563,323	Scribner, C. E -----	July 7, 1896	572,218	Scribner, C. E -----	Dec. 1, 1896
564,173	Carty, J. J -----	July 14, 1896	572,223	Scribner and McBerty -----	Dec. 1, 1896
564,457	Scribner and McBerty -----	July 21, 1896	574,006	Scribner, C. E -----	Dec. 29, 1896
564,458	Scribner and McBerty -----	July 21, 1896	574,221	Scribner, C. E -----	Dec. 29, 1896
565,523	Andrews, R. McG -----	Aug. 11, 1896			

## 148. ANNEALING AND TEMPERING. 10. TEMPERING AND ANNEALING—APPLICATIONS OF ELECTRICITY.

578,170	Turner, C. P -----				Mar. 2, 1897
---------	--------------------	--	--	--	--------------

## 204. ELECTRO-CHEMISTRY.—49. BATTERIES—ANODES.

579,273	Lane, F. A -----				Mar. 23, 1897
---------	------------------	--	--	--	---------------

## CLASSIFIED INDEX—ELECTRICITY.

## 204. ELECTRO-CHEMISTRY.—53. BATTERIES—VESSELS.

No.	NAME.	DATE.	No.	NAME.	DATE.
572,435	Moffatt, J. M.	Dec. 1, 1896	577,282	Burnet, E.	Feb. 16, 1897
575,449	Werner, A. L.	Jan. 19, 1897	579,916	Brewer, H. J.	Mar. 30, 1897
576,936	Badt, F. B.	Feb. 9, 1897			

## 204. ELECTRO-CHEMISTRY.—54. BATTERIES—CARBON.

569,591	Short, S. H.				Oct. 13, 1896
---------	--------------	--	--	--	---------------

## 204. ELECTRO-CHEMISTRY.—48. BATTERIES—GAS.

567,721	Payson, J. R.	Sept. 15, 1896	583,104	Wattles, L. H.	May 25, 1897
567,959	Borehers, W.	Sept. 22, 1896			

## 204. ELECTRO-CHEMISTRY.—31. BATTERIES—ONE-FLUID, ZINC.

568,007	Thomson, H. C.	Sept. 22, 1896	581,426	Moffatt, R. R.	Apr. 27, 1897
573,493	Stephenson, A. E.	Dec. 22, 1896	583,128	Schmidt, P.	May 25, 1897
578,131	Anderson, H. A. C.	Mar. 2, 1897			

## 204. ELECTRO-CHEMISTRY.—39. BATTERIES—ONE-FLUID, ZINC—CHLORIDS.

572,285	Wilms, C.				Dec. 1, 1896
---------	-----------	--	--	--	--------------

## 204. ELECTRO-CHEMISTRY.—28. BATTERIES—ONE-FLUID, ZINC—OXIDS.

580,523	Gordon, R. W.	Apr. 15, 1897	581,174	Kitsee, I.	June 15, 1897
---------	---------------	---------------	---------	------------	---------------

## 204. ELECTRO-CHEMISTRY.—36. BATTERIES—ONE-FLUID, ZINC—SULFATES.

579,707	Essick, S. V.				Mar. 30, 1897
---------	---------------	--	--	--	---------------

## 204. ELECTRO-CHEMISTRY.—41. BATTERIES—TWO-FLUID, ZINC.

576,095	Doe, W. S.	Feb. 2, 1897	583,132	Sutton and Steele	May 25, 1897
---------	------------	--------------	---------	-------------------	--------------

## 204. ELECTRO-CHEMISTRY.—42. BATTERIES—TWO-FLUID, ZINC—NITRATES.

571,456	Smith, S. N.	Nov. 17, 1896	572,754	Holmes and Heath	Dec. 5, 1896
---------	--------------	---------------	---------	------------------	--------------

## 204. ELECTRO-CHEMISTRY.—43. BATTERIES—TWO-FLUID, ZINC—SULFATES.

580,497	Laura, G.				Apr. 13, 1897
---------	-----------	--	--	--	---------------

## 204. ELECTRO-CHEMISTRY.—29. BATTERIES—SECONDARY.

563,428	Still, W. J.	July 7, 1896	570,928	Langelaan, J.	Oct. 27, 1896
564,652	Schneider, F. W.	July 25, 1896	570,619	Weise, C. H.	Nov. 3, 1896
565,140	Hübner, G.	Aug. 4, 1896	571,059	Allan, T. W.	Nov. 10, 1896
567,041	Rhodin, J. G. A.	Sept. 1, 1896	571,143	Woodward, H.	Nov. 10, 1896
567,045	Rhodin, J. G. A.	Sept. 1, 1896	571,598	Körner, J.	Nov. 17, 1896
568,447	King, F.	Sept. 29, 1896	574,322	Grindle, G. A.	Dec. 29, 1896
570,013	Gordon, R. W.	Oct. 27, 1896	574,417	Harris and Holland	Jan. 5, 1897
570,014	Gordon, R. W.	Oct. 27, 1896	574,526	Rooney, J. J.	Jan. 5, 1897

## 204. ELECTRO-CHEMISTRY.—29. BATTERIES—SECONDARY—Continued.

NO.	NAME.	DATE.	NO.	NAME.	DATE.
576,163	Schueider, F. W.	Feb. 2, 1897	580,428	Schneider, F. W.	Apr. 13, 1897
576,164	Schneider, F. W.	Feb. 2, 1897	581,104	Dickerson, E. N.	Apr. 20, 1897
576,177	Willard, T. A.	Feb. 2, 1897	581,283	Harris, V. M.	Apr. 27, 1897
576,178	Willard, T. A.	Feb. 2, 1897	582,036	Majert, W.	May 18, 1897
577,771	Morris, H. G.	Feb. 23, 1897	583,810	May and King	June 1, 1897
578,710	Barrett, C. T.	Mar. 16, 1897	583,912	Krotz, A. S.	June 8, 1897
578,870	Hammacher, S.	Mar. 16, 1897	585,359	Hoeffner, L.	June 29, 1897
578,887	Linde, R.	Mar. 16, 1897	585,472	Hatch, G. E.	June 29, 1897
579,001	Martin, S. J.	Mar. 16, 1897	585,473	Hatch, G. E.	June 29, 1897
579,361	Epstein, L.	Mar. 23, 1897			

## 204. ELECTRO-CHEMISTRY.—1. ELECTROLYSIS—AQUEOUS BATH.

567,694	Smith, W. P.	Sept. 15, 1896	571,532	Langhans, R.	Nov. 17, 1896
568,258	Knees, V. J.	Sept. 22, 1896	571,533	Langhans, R.	Nov. 17, 1896
571,531	Langhans, R.	Nov. 17, 1896	579,317	Constatin and Hansen	Mar. 23, 1897

## 204. ELECTRO-CHEMISTRY.—2. ELECTROLYSIS—ALLOYS.

563,723	Alexander, H.				July 14, 1896
---------	---------------	--	--	--	---------------

## 204. ELECTRO-CHEMISTRY.—ELECTROLYSIS—AQUEOUS BATH—ALUMINIUM.

577,156	Collins, G. G.				Feb. 16, 1897
---------	----------------	--	--	--	---------------

## 204. ELECTRO-CHEMISTRY.—4. ELECTROLYSIS—AQUEOUS BATH—ANODES.

568,229	Blackman, H.	Sept. 22, 1896	572,472	Castner, H. Y.	Dec. 1, 1896
568,230	Blackman, H.	Sept. 22, 1896	578,070	Woolf, A. E.	Mar. 2, 1897
568,231	Blackman, H.	Sept. 22, 1896			

## 204. ELECTRO-CHEMISTRY.—5. ELECTROLYSIS—AQUEOUS BATH—APPARATUS.

563,972	Kroseberg and Straub	July 14, 1896	572,512	Albert, H.	Dec. 8, 1896
565,975	George, J. H.	Aug. 18, 1896	573,355	Pridham, M.	Dec. 15, 1896
566,673	Fielding and Walker	Aug. 25, 1896	574,038	Marks, R. J.	Dec. 29, 1896
568,724	Andreoli, E.	Oct. 6, 1896	578,953	Thum, F. A.	Mar. 16, 1897
570,133	May, W. D. C.	Oct. 27, 1896	583,513	Spilker, W.	June 1, 1897

## 204. ELECTRO-CHEMISTRY.—6. ELECTROLYSIS—AQUEOUS BATH—CATHODES.

568,412	Ramage, A. S.	Sept. 29, 1896	582,342	Chaffin, E. L.	May 11, 1897
574,543	Winslow, W. H.	Jan. 5, 1897	583,255	Georges, E. A.	May 25, 1897
577,070	Sandham, H.	Feb. 16, 1897			

## 204. ELECTRO-CHEMISTRY.—8. ELECTROLYSIS—AQUEOUS BATH—METALLIZING.

585,387	Kellner, C.				June 29, 1897
---------	-------------	--	--	--	---------------

## 204. ELECTRO-CHEMISTRY.—9. ELECTROLYSIS—AQUEOUS BATH—CHEMICALS.

563,553	Browne and Chaplin	July 7, 1896	571,591	Hargreaves and Bird	Nov. 17, 1896
563,554	Browne and Chaplin	July 7, 1896	578,457	Kellner, C.	Mar. 9, 1897
563,555	Browne and Chaplin	July 7, 1896	579,250	Baker, E.	Mar. 23, 1897
565,324	Blumenberg, H.	Aug. 4, 1896	580,919	Woolf, A. E.	Apr. 20, 1897
569,173	Cassell, H. R.	Oct. 13, 1896	583,330	Le Sueur, E. A.	May 25, 1897

## 204. ELECTRO-CHEMISTRY.—11. ELECTROLYSIS—AQUEOUS BATH—DEPOLARIZING AND BURNISHING.

No.	NAME.	DATE.	No.	NAME.	DATE.
579,124	Bossard, J.	Mar. 23, 1897	585,051	Smith and Deakin	June 22, 1897
580,451	Conchar, J. W.	Apr. 13, 1897			

## 204. ELECTRO-CHEMISTRY.—13. ELECTROLYSIS—MULTIPLE.

581,775	Schwabe, C.				May 4, 1897
---------	-------------	--	--	--	-------------

## 204. ELECTRO-CHEMISTRY.—15. ELECTROLYSIS—AQUEOUS BATH—ORES.

565,953	Andreoli, E.	Aug 18, 1896	578,171	Turner, C. P.	Mar. 2, 1897
567,503	Pelatan and Clerici	Sept. 8, 1896	579,872	Hircraft, J. H.	Mar. 30, 1897
568,099	Pelatan and Clerici	Sept. 22, 1896	581,160	Hirshing, H.	Apr. 20, 1897
568,741	Cassell, H. R.	Oct. 6, 1896	584,242	Salom, P. G.	June 8, 1897
568,843	Engelhardt and Nettel	Oct. 6, 1896	585,355	Burghardt and Rigg	June 29, 1897
569,722	Morrow, J. T.	Oct. 20, 1896	585,492	Webb, J. F.	June 29, 1897
571,468	Barbour, T. P.	Nov. 17, 1896			

## 204. ELECTRO-CHEMISTRY.—22. ELECTROLYSIS—BLEACHING.

579,236	Kellner, C.	Mar. 23, 1897	581,052	Woolf, A. E.	Apr. 20, 1897
---------	-------------	---------------	---------	--------------	---------------

## 204. ELECTRO-CHEMISTRY.—28. ELECTROLYSIS—DIAPHRAGMS.

564,311	Mercer, J.				July 21, 1896
---------	------------	--	--	--	---------------

## 204. ELECTRO-CHEMISTRY.—19. ELECTROLYSIS—FUSED BATH.

568,323	Acheson, E. G.	Sept. 29, 1896	578,633	Gooch, F. A.	Mar. 9, 1897
569,325	Dankwardt, P.	Oct. 13, 1896	579,988	Kellner, C.	Apr. 6, 1897
573,233	Netto, M.	Dec. 15, 1896	582,923	Hunt, A. E.	May 18, 1897
575,722	Willson, T. L.	Jan. 26, 1897			

## 204. ELECTRO-CHEMISTRY.—24. ELECTROLYSIS—PURIFYING LIQUIDS.

573,289	Pridham, M.	Dec. 15, 1896	564,130	Wiedring, F. C.	July 14, 1896
573,290	Pridham, M.	Dec. 15, 1896	584,050	Deminger, H.	June 8, 1897
573,645	Hermite, E.	Jan. 19, 1897			

## 204. ELECTRO-CHEMISTRY.—25. ELECTROLYSIS—PURIFYING LIQUIDS—WATER.

565,491	Meyer, O. E.	Aug. 11, 1896	583,131	Stiebel, H. G.	May 25, 1897
577,134	Harrison, J. H.	Feb. 16, 1897	583,718	Teter, W. L.	June 1, 1897

## 204. ELECTRO-CHEMISTRY.—27. ELECTROLYSIS—TANNING.

582,891	Worms, E.				May 18, 1897
---------	-----------	--	--	--	--------------

## 204. ELECTRO-CHEMISTRY.—31. SYNTHESIS.

563,257	Lobach, W.	July 7, 1896	571,084	Eldridge, Clarke, and Wam-	Nov. 10, 1896
569,122	Naville and Guye	Oct. 6, 1896		baugh.	

## 204. ELECTRO-CHEMISTRY.—32. SYNTHESIS—OZONE.

No.	Name.	Date.	No.	Name.	Date.
565,952	Andreoli, E -----	Aug. 18, 1896	577,636	Andreoli, E -----	Feb. 23, 1897
568,177	Tesla, N -----	Sept. 22, 1896	580,244	Yarnold, C. J -----	Apr. 6, 1897
574,341	Pridham, M -----	Dec. 29, 1896			

## 75. METALLURGY.—178. FURNACES—ELECTRIC.

567,699	Vincent, J. A -----	Sept. 15, 1896	577,802	Westman, G. M. -----	Feb. 23, 1897
571,655	Girrard and Street -----	Nov. 17, 1896	578,685	Whitney, E. R. -----	Mar. 9, 1897
572,312	Price, E. F. -----	Dec. 1, 1896	579,324	Hadaway, W. S. -----	Mar. 23, 1897
572,636	Hewes, J. E -----	Dec. 8, 1896	579,597	Moxham, A. J -----	Mar. 30, 1897
575,115	Hunt, A. E -----	Jan. 12, 1897	583,249	Cowles, A. H -----	May 25, 1897
575,826	Deutber, J. A -----	Jan. 26, 1897	583,250	Cowles, A. H -----	May 25, 1897
575,829	Joyce, J -----	Jan. 26, 1897	583,618	Eldridge, Wright, and Clark	June 1, 1897
577,317	Patten, F. J -----	Feb. 16, 1897	583,936	Rice, E. F -----	June 8, 1897
577,370	Patten, F. J -----	Feb. 16, 1897	585,040	Laval, C. G. P. de -----	Jnne 22, 1897

## 37. FENCES.—38. RAILWAY GATES—ELECTRIC.

567,657	Roome, W. G -----	Sept. 15, 1896	582,889	Williams, Kinney, and Kinney.	May 18, 1897
568,051	Snmmers, L. L -----	Sept. 22, 1896			
576,493	Bigger, J. S -----	Feb. 2, 1897			

## 192. CLUTCHES.—18. FLUID.

563,316	Scribner, C. E -----	July 7, 1896	563,317	Scribner, C. E -----	July 7, 1896
---------	----------------------	--------------	---------	----------------------	--------------

## 84. MUSIC.—81. ELECTRIC ACTIONS.

565,739	Gilman, W. H -----	Aug. 11, 1896	576,342	Davis, G. H -----	Feb. 2, 1897
570,911	Davis, G. H -----	Nov. 10, 1896	580,010	Shonard, H. W -----	Apr. 6, 1897
575,072	Simpkins, E. J -----	Jan. 12, 1897	580,035	Cahill, T -----	Apr. 6, 1897

## 84. MUSIC.—95. ORGAN ACTION—ELECTROPNEUMATIC.

578,925	Hastings and Flaberty -----	Mar. 16, 1897	582,918	Hobbs, H. E -----	May 18, 1897
---------	-----------------------------	---------------	---------	-------------------	--------------

## 206. METAL WELDING.—8. METAL WORKING—ELECTRIC.

564,331	Lemp, H. -----	July 21, 1896	564,792	Lemp, H. -----	July 28, 1896
564,453	Ries, E. E -----	July 21, 1896			

## 101. PRINTING.—35. ELECTROTYPEING.

582,364	McCarroll, W. -----				May 11, 1897
---------	---------------------	--	--	--	--------------

## 197. TYPE-WRITING MACHINES.—6. ELECTRICAL.

566,442	Cahill, T -----				Aug. 25, 1896
---------	-----------------	--	--	--	---------------

## 136. STEAM ENGINE VALVES.—15. THROTTLE—ELECTRIC.

583,326	Cary, J. H -----				May 25, 1897
---------	------------------	--	--	--	--------------

## CLASSIFIED INDEX—ELECTRICITY.

## 126. STOVES AND FURNACES.—117. HEATERS—ELECTRIC.

No.	Name.	Date.	No.	Name.	Date.
563,715	Grutting, T -----	July 7, 1896	573,042	Jenny, F. W. Shindler -----	Dec. 15, 1896
565,136	Date, Heffron, Scranton, and Scudder.	Aug. 4, 1896	573,142	Flanegin, F. A -----	Dec. 15, 1896
			573,670	Lagrelle, A. D -----	Dec. 22, 1896
565,574	Sill, R. van R -----	Aug. 11, 1896	574,536	Hadaway, W. S -----	Jan. 5, 1897
566,545	Snyder and Tinnerholm -----	Aug. 25, 1896	574,537	Hadaway, W. S -----	Jan. 5, 1897
566,564	Dewey, M. W -----	Aug. 25, 1896	576,766	Robertson, W. F -----	Feb. 9, 1897
567,247	Meek, J. E -----	Sept. 8, 1896	585,308	Fraley, G. B -----	June 29, 1897
567,248	Meek, J. E -----	Sept. 8, 1896	585,309	Fraley, G. B -----	June 29, 1897
567,976	Hadaway, W. S., Jr -----	Sept. 22, 1896	585,310	Fraley, G. B -----	June 29, 1897
571,257	Appleyard, A. E -----	Nov. 10, 1896	585,311	Fraley, G. B -----	June 29, 1897
572,467	Baker, B. E -----	Dec. 1, 1896			

## 70. LOCKS AND LATCHES.—50. LOCKS—ELECTRIC.

580,820	Scheeren, E. J. M -----				Apr. 13, 1897
---------	-------------------------	--	--	--	---------------

## 58. HOROLOGY.—28. CLOCKS—ELECTRIC.

564,811	Wilson, J. H -----	July 28, 1896	578,976	Crook, C. M -----	Mar. 16, 1897
566,313	Hammer, E. G -----	Aug. 25, 1896	574,922	MacKenzie, G. W -----	Jan. 12, 1897
568,475	Cruyt, W. J -----	Sept. 29, 1896	582,273	De Witt, B -----	May 11, 1897
569,099	Girod, F. E -----	Oct. 6, 1896	584,128	Gerry, J. H -----	June 8, 1897
572,131	Schnlte, J. A -----	Dec. 1, 1896	584,149	Watters, L. H -----	June 8, 1897
573,430	Crook, C. M -----	Dec. 15, 1896	585,248	Baumann and Wurmb -----	June 29, 1897
574,669	Crook, C. M -----	Jan. 5, 1897	585,301	Wurmb and Baumann -----	June 29, 1897

## 58. HOROLOGY.—15. TIME ALARMS.

563,883	Beams, A. J -----	July 14, 1896	585,480	Roebuck, A. C -----	June 29, 1897
---------	-------------------	---------------	---------	---------------------	---------------

## 73. MEASURING INSTRUMENTS.—101. BALANCES—ELECTRICAL ATTACHMENTS.

566,925	Munson, A. L -----	Sept. 1, 1896	573,217	Thomas, E. G -----	Dec. 15, 1896
---------	--------------------	---------------	---------	--------------------	---------------

## 73. MEASURING INSTRUMENTS.—85. TELETERMETERS.

571,426	Agelasto, M. A -----				Nov. 17, 1896
---------	----------------------	--	--	--	---------------

## 83. MILLS.—65. AMALGAMATORS—ELECTRIC.

566,894	Daukwardt, P -----	Sept. 1, 1896	581,643	Wright, W -----	Apr. 27, 1897
579,211	Wright, W -----	Mar. 23, 1897	582,077	Motz, E -----	May 4, 1897
581,034	Pike, C. F -----	Apr. 20, 1897	583,354	Austin, F. B -----	May 25, 1897

## 83. MILLS.—71. SEPARATORS—MAGNETIC.

564,858	Whitacre and Wolfe -----	July 28, 1896	564,859	Whitacre and Wolfe -----	July 28, 1896
---------	--------------------------	---------------	---------	--------------------------	---------------

## 188. RAILWAY-BRAKES.—36. ELECTRIC.

565,939	Sperry, E. A -----	Aug. 18, 1896	571,410	Sperry, E. A -----	Nov. 17, 1896
567,959	Macdonald, A. F -----	Sept. 22, 1896	574,120	Sperry, E. A -----	Dec. 29, 1896
571,409	Sperry, E. A -----	Nov. 17, 1896			

## 188. RAILWAY BRAKES.—37. MAGNETIC CLUTCH—WINDING-DRUM.

564,195	Henry, J. C -----				July 21, 1896
---------	-------------------	--	--	--	---------------

## 188. RAILWAY-BRAKES.—38. ELECTRIC—MAGNETIC SHOES.

NO.	NAME.	DATE.	NO.	NAME.	DATE.
565,937	Sperry, E. A -----	Aug. 18, 1896	569,101	Hauerwas, E. A -----	Oct. 6, 1896

## 188. RAILWAY-BRAKES.—39. ELECTRIC—SOLENOID-OPERATED.

563,725	Ash, W. V -----				July 14, 1896
---------	-----------------	--	--	--	---------------

## 188. RAILWAY-BRAKES.—4. FLUID-PRESSURE—ELECTRIC.

563,934	Luyers, C -----	July 14, 1896	578,298	Shea, C. A -----	Mar. 2, 1897
577,526	Chapsal, F -----	Feb. 23, 1897	581,415	Damon and Pearson-----	Apr. 27, 1897

## 105. RAILWAY ROLLING-STOCK.—239. ELECTRIC-MOTOR—BOGIES.

564,904	Tesseyman, H -----	July 28, 1896	582,435	Pyott, L. T -----	May 11, 1897
567,472	Henszey, W. P. -----	Sept. 8, 1896			

## 105. RAILWAY ROLLING-STOCK.—240. ELECTRIC-MOTOR—EQUALIZING-LEVERS.

563,685	Peckham, E -----	July 7, 1896	571,091	Lovejoy, T. H -----	Nov. 10, 1896
---------	------------------	--------------	---------	---------------------	---------------

## 105. RAILWAY ROLLING-STOCK.—241. TRUCKS—ELECTRIC MOTOR—MOTOR SUPPORTERS.

564,902	Short, S. H -----	July 28, 1896	571,825	Brill and Brill-----	Nov. 24, 1896
---------	-------------------	---------------	---------	----------------------	---------------

## 105. RAILWAY ROLLING-STOCK.—242. TRUCKS—ELECTRIC-MOTOR—RIGID-FRAME.

566,526	McGuire and Hubbard -----	Aug. 25, 1896	571,824	Brill, J. A -----	Nov. 24, 1896
567,364	Du Pont, T. C -----	Sept. 15, 1896	574,532	Gee, H. L -----	Jan. 5, 1897
568,079	Adams, W. S -----	Sept. 22, 1896	577,481	Hnbbard, M. G., Jr.	Feb. 23, 1897
569,072	Tackaberry, J. A -----	Oct. 6, 1896	579,195	Turner, G. E -----	Mar. 23, 1897
570,473	Graham, J. H -----	Nov. 3, 1896	580,951	McGuire and Hubbard -----	Apr. 20, 1897
571,263	Crawford, T -----	Nov. 10, 1896	581,792	Tesseyman, H -----	May 4, 1897

## 105. RAILWAY ROLLING-STOCK.—259. LOCOMOTIVES—ELECTRIC.

563,425	Sperry, E. A -----	July 7, 1896	572,111	Griffiths, J. A -----	Dec. 1, 1896
565,936	Sperry, E. A -----	Aug. 18, 1896	572,685	Robinson, W -----	Dec. 8, 1896
565,938	Sperry, E. A -----	Aug. 18, 1896	572,686	Robinson, W -----	Dec. 8, 1896
566,400	Johnson, C. H -----	Ang. 25, 1896	573,905	McLaughlin, J. F -----	Dec. 29, 1896
566,579	Heureux and Faneuf -----	Aug. 25, 1896	577,971	Schmid, A -----	Feb. 16, 1897
565,632	Honey, A. A -----	Sept. 29, 1896	578,760	McElroy, J. F -----	Mar. 16, 1897
565,591	Bassett, N. C -----	Oct. 6, 1896	580,598	Elliott, W. S -----	Apr. 13, 1897

## 105. RAILWAY ROLLING-STOCK.—219. LOCOMOTIVES—ELECTRIC—FRICTION ROLLER-DRIVER.

575,723	Mather, A. C -----				Jan. 26, 1897
---------	--------------------	--	--	--	---------------

## 105. RAILWAY ROLLING-STOCK.—220. LOCOMOTIVES—ELECTRIC—GEARED.

565,155	Conner, MacMillan, and Fuller.	Aug. 4, 1896	567,560 567,662	Pagnall, E. J.----- Short, S. H-----	Sept. 8, 1896 Sept. 15, 1896
---------	--------------------------------	--------------	--------------------	---	---------------------------------

## 104. RAILWAYS.—94. SIGNALS—AUTOMATIC.

567,565	Pratt, W. T. C -----				Sept. 15, 1896
---------	----------------------	--	--	--	----------------

## CLASSIFIED INDEX—ELECTRICITY.

## 104. RAILWAYS.—12. SWITCHES.

No.	NAME.	DATE.	No.	NAME.	DATE.
572,169	Hunter, R. M -----	Dec. 1, 1896	578,139	Doty and MacKnight -----	Mar. 2, 1897
573,344	Mustain, S. A -----	Dec. 15, 1896			

## 104. RAILWAY.—58. TRACK-CLEANERS—REMOVING WEEDS.

565,671	Cummings, M. S -----				Aug. 11, 1896
---------	----------------------	--	--	--	---------------

## 46. GAMES AND TOYS.—49. TOYS—ELECTRIC.

571,997	Fall, A. W -----	Nov. 24, 1896	581,678	Nesbitt, J -----	Apr. 27, 1897
577,730	Eberhardt, L. A -----	Feb. 23, 1897			

---

## APPENDIX No. XVI.

---

### PART II.

---

CONSISTING OF A

### NUMERICAL AND CHRONOLOGICAL INDEX OF ALL PATENTS

RELATING TO

### ELECTRICITY.

Issued from July 1, 1896, to June 30, 1897, inclusive, giving names of Inventors, number and dates of Patents, and the sub-class to which each belongs.

---



# NUMERICAL INDEX

OF

## PATENTS RELATING TO ELECTRICITY

FROM JULY 1, 1896, TO JUNE 30, 1897.

No.	NAME.	CLASS.	DATE.
563,250	Bell, O. A.	Telephones, multiple switchboard, test	July 7, 1896
563,254	Brandenburg, H.	Railways, systems, conduit	July 7, 1896
563,257	Carleton, T. L.	Cut-outs, thermal, successive	July 7, 1896
563,262	Dickerson, E. N.	Batteries, thermal	July 7, 1896
563,263	Diebl, A. S.	Conductors	July 7, 1896
563,269	Garl, M.	Annunciators, drop systems	July 7, 1896
563,273	Guillaume, T.	Conductors	July 7, 1896
563,274	Guillaume, T.	do	July 7, 1896
563,282	Lacbmann, E.	Railways, systems, conduit	July 7, 1896
563,288	Lobach, W.	Electrolysis, synthesis	July 7, 1896
563,290	Loveridge, F. H.	Regulators, resistance	July 7, 1896
563,294	McBerty, F. R.	Telephones, systems, intermediate sub-sta-tion.	July 7, 1896
563,304	Ongley, C. E.	Motors, steering and propulsion	July 7, 1896
563,315	Scribner, C. E.	Lights, arc, gravity-feed, gear-clutch	July 7, 1896
563,316	Scribner, C. E.	Fluid	July 7, 1896
563,317	Scribner, C. E.	do	July 7, 1896
563,318	Scribner, C. E.	Telephones, systems, intermediate sub-sta-tion.	July 7, 1896
563,319	Scribner, C. E.	Lights, incandescent	July 7, 1896
563,320	Scribner, C. E.	Telephones, systems, mnltiple switchboard, test	July 7, 1896
563,321	Scribner, C. E.	Lights, incandescent	July 7, 1896
563,322	Scribner, C. E.	Telephones, systems	July 7, 1896
563,323	Scribner, C. E.	Telephones, systems, mnltiple switchboard, test	July 7, 1896
563,324	Scribner, C. E.	Telegraphy, fire	July 7, 1896
563,325	Scribner, C. E.	Telephones, systems, central	July 7, 1896
563,326	Scribuer, C. E.	Telephones, switchboards	July 7, 1896
563,327	Scribner and Warner	do	July 7, 1896
563,323	Thayer, H. B.	do	July 7, 1896
563,335	Tucker and Loveridge	Lighting, systems, safety	July 7, 1896
563,336	Turner and Chapman	Telegraphy, fire, non-interfering	July 7, 1896
563,337	Wait, H. H.	Magneto-electric, brushes and holders	July 7, 1896
563,342	Welles, A. T.	Conductors, underground	July 7, 1896
563,360	Cope, T. J.	do	July 7, 1896
563,374	Harris and Harris	Railway, cab, sectional rail	July 7, 1896
563,357	Keller, M. E.	Medical and surgical	July 7, 1896
563,395	Moore, W. A.	Telephones, granular	July 7, 1896
563,407	Perkins, C. G.	Cut-outs, mechanical, rotary	July 7, 1896
563,424	Sperry, E. A.	Motors, hand-operating devices	July 7, 1896
563,425	Sperry, E. A.	Railway rolling-stock, locomotives, electric	July 7, 1896
563,426	Steinmetz, C. P.	Motors, trausmission of power, alternating	July 7, 1896
563,427	Steinmetz, C. P.	Regulators, alternating, compoundig	July 7, 1896
563,428	Still, W. J.	Batteries, secondary	July 7, 1896
563,440	Berg, E. J.	Motors, alternating, starters	July 7, 1896
563,442	Bogart, S. S.	Railway	July 7, 1896
563,443	Bogart, S. S.	Telephones, calls, step-by-step	July 7, 1896
563,453	Cronse and Milgate	Magneto-electric, band-machines	July 7, 1896
563,474	Frost, J. W.	Telegraby, fire alarms and extinguishers	July 7, 1896
563,475	Frost, J. W.	Telegraby, circuit-closers, thermal	July 7, 1896
563,482	Haley, P.	Railways, conductors supports and insulators	July 7, 1896
563,501	Milborne, J. P.	Signaling, indicators	July 7, 1896
563,531	Wilson, C. F.	Railways, systems, overhead, trolleys	July 7, 1896
563,544	Bateman, T. O.	Signaling, alarms	July 7, 1896
563,546	Bean, M. F.	Railways, systems, overhead	July 7, 1896
563,553	Browne and Chaplin	Electrolysis, aqueous bath, cbemicals	July 7, 1896
563,554	Browne and Chaplin	do	July 7, 1896
563,555	Browne and Chaplin	do	July 7, 1896
563,575	Dinkey, A. C.	Motors, hand-operating devices	July 7, 1896
563,586	Frost, J. W.	Telegraphy, fire, antomatic	July 7, 1896

## NUMERICAL INDEX—ELECTRICITY.

No.	NAME.	CLASS.	DATE.
563,599	Leonard, A. L	Magneto-electric, hand-machines	July 7, 1896
563,600	Leonard, H. W	Conductors, rheostats	July 7, 1896
563,614	Piel, J	Telephones, switches	July 7, 1896
563,685	Peckham, E	Motors, equalizing levers	July 7, 1896
563,692	Stone, J. S	Telephones, systems, central	July 7, 1896
563,693	Toquet, B. L	Condctors, connectors	July 7, 1896
563,715	Gnrtting, T	Heaters, electric	July 7, 1896
563,723	Alexander, H	Electrolysis, alloys	July 14, 1896
563,724	Arthnr, J. M	Indicators	July 14, 1896
563,725	Ash, W. V	Railway-brakes, electric, solenoid-operated	July 14, 1896
563,743	Clark, J. H	Motors, hand-operating devices	July 14, 1896
563,749	Cottrell, W. C	Railways, systems, overhead trolleys	July 14, 1896
563,773	Knight, J. C	Lights, arc, gravity-feed, gear-clutch	July 14, 1896
563,831	Woolley, L. G	Telegraphy, circuit-closers, thermal	July 14, 1896
563,832	Young, J	Telegraphy, fire, automatic	July 14, 1896
563,877	Patterson, W. R	Telephones, systems, intermediate sub-station.	July 14, 1896
563,883	Beams, A. J	Horology, time alarms	July 14, 1896
563,895	Thomson, E	Inductoriums, transformers, stationary	July 14, 1896
563,911	Cooper, W	Generation, magneto-electric, multipolar	July 14, 1896
563,917	Eveshead, S	Galvanometers	July 14, 1896
563,920	Graham, A	Telephones, systems, house	July 14, 1896
563,922	Gridley, W. D	Lights, incandescent, special features	July 14, 1896
563,924	Hansel, C	Signaling, railway	July 14, 1896
563,934	Luyers, C	Railway-brakes, fluid-pressure	July 14, 1896
563,935	Martin, H. A	Telephones, multiple-electrode	July 14, 1896
563,940	Parcell, A. L	Magneto-electric, multipolar	July 14, 1896
563,960	Hawes and Hawes	Telegraphy, circuit-closers, lock	July 14, 1896
563,972	Kroesberg and Straub	Electrolysis, aqueous bath, apparatus	July 14, 1896
563,998	Blanchard, H. H	Railways, systems, overhead trolleys	July 14, 1896
564,036	Thompson, A. C	Lights, incandescent, special features	July 14, 1896
564,054	De Witt and Elliott	Railways, sectional conductor, mechanical closers.	July 14, 1896
564,084	Khotinsky, A. de	Cut-outs, thermal	July 14, 1896
564,130	Wiedring, F. C	Electrolysis, purifying liquids, alcohol	July 14, 1896
564,168	Tower, G. A	Indicators	July 14, 1896
564,173	Carty, J. J	Telephones, systems, multiple switchboard, test.	July 14, 1896
564,174	Elwell, R. T	Conductors, house-wiring	July 14, 1896
564,195	Henry, J. C	Railway-brakes, electric magnetic clutch	July 21, 1896
564,196	Hinkly, E. A	Telephones, multiple-electrode	July 21, 1896
564,200	Hutin and Leblanc	Magneto-electric, armatures, ring	July 21, 1896
564,229	Speer, E. A	Telegraphy, fire, automatic	July 21, 1896
564,243	Daniels, F. H	Connectors	July 21, 1896
564,258	Rosebach, G	Medical and surgical, electrode	July 21, 1896
564,262	Stern, P. K	Railways, motor part along the track	July 21, 1896
564,283	Hunt, J. T	Cnt-onts, mechanical, oscillating snap	July 21, 1896
564,311	Mercer, J	Electrolysis, diaphragms	July 21, 1896
564,314	Rogers, J. B	Annunciators, step-by-step	July 21, 1896
564,328	Dean, W. W	Telephones, systems, central	July 21, 1896
564,331	Lemp, H	Metal-welding, metal-working, electric	July 21, 1896
564,333	Moskowitz, M	Lighting, systems, car	July 21, 1896
564,334	Moskowitz, M	do	July 21, 1896
564,335	Moskowitz, M	do	July 21, 1896
564,336	Moskowitz, M	do	July 21, 1896
564,344	Stickle, S. C	Annunciators	July 21, 1896
564,369	Farnham, E. W	Railways, telpher and towing	July 21, 1896
564,371	Fleury, C. M	Telephones, details	July 21, 1896
564,392	Peck, C. M	Annunciators	July 21, 1896
564,395	Russell, W. H	Railways, systems, overhead trolleys	July 21, 1896
564,415	Wallace, T	Conductors, connectors	July 21, 1896
564,433	Lewis, R. H	Conductors	July 21, 1896
564,437	Macbeth, J	Magneto-electric, hand-machines	July 21, 1896
564,443	Mezzer, C. A	Conductors, house-wiring	July 21, 1896
564,453	Ries, E. E	Metal-welding, metal working, electric	July 21, 1896
564,455	Scott, C. J	Motive-power, motors	July 21, 1896
564,456	Scribner and McBerty	Telephones, systems	July 21, 1896
564,457	Scribner and McBerty	Telephones, systems, multiple switchboard, test.	July 21, 1896
564,458	Scribner and McBerty	do	July 21, 1896
564,480	Francis, G. T	Motive-power, elevators	July 21, 1896
564,485	Hickes, O. H	Alarms, barokinetic	July 21, 1896
564,558	Eickemeyer, R	Regulators	July 21, 1896
564,559	Eickemeyer, R	do	July 21, 1896
564,567	Maxim, H. F	Telegraphy, circuit-closers, thermal	July 21, 1896
11,559	Lean, G. R	Lighting, systems	July 21, 1896
564,629	Mather, A. C	Railways, systems, overhead	July 28, 1896

## NUMERICAL INDEX—ELECTRICITY.

3

No.	NAME.	CLASS.	DATE.
564,632	Mitchell, A. W.	Motors, hand-operating devices	July 28, 1896
564,638	Ogborn, H.	Railways, systems, overhead, trolleys	July 28, 1896
564,652	Schueider, F. W.	Batteries, secondary	July 28, 1896
564,679	Wurts, A. J.	Connectors	July 28, 1896
564,683	Daves, W.	Railway signals, sectional rail	July 28, 1896
564,702	Lamme, B. G.	Magneto-electric, multipolar	July 28, 1896
564,703	Lamme, B. G.	Magneto-electric, armature, pole	July 28, 1896
564,706	Lüpke, P.	Railway signals, block	July 28, 1896
564,717	Rider, H. E.	Medical and surgical	July 28, 1896
564,723	Soleau, E. F. A.	Lights, sockets and keys	July 28, 1896
564,743	Elliott and Eskholme	Magneto-electric, multipolar	July 28, 1896
564,745	Gould, C. C.	Telephones, systems, central	July 28, 1896
564,746	Gould, C. C.	Annunciators	July 28, 1896
564,757	Lucas, A. H.	Lights, arc, special features	July 28, 1896
564,771	Armstrong, W. C.	do	July 28, 1896
564,772	Armstrong, W. C.	do	July 28, 1896
564,792	Lemp, H.	Metal-welding, metal-working	July 28, 1896
564,793	Lippey and Finfrock	Railways, systems, overhead, trolleys	July 28, 1896
564,794	Lippey and Finfrock	do	July 28, 1896
564,795	Lippey and Finfrock	do	July 28, 1896
564,811	Wilson, J. H.	Clocks, electric	July 28, 1896
564,858	Whitacre and Wolfe	Mills, separators, magnetic	July 28, 1896
564,859	Whitacre and Wolfe	do	July 28, 1896
564,902	Short, S. H.	Railway rolling-stock, electric-motor, motor-supporters.	July 28, 1896
564,904	Tesseyman, H.	Railway rolling-stock, electric-motor, bogies	July 28, 1896
564,907	Ward, B. B.	Lights, arc, gravity-feed, gear-clutch	July 28, 1896
564,944	Sessions, F. L.	Inductoariums, transformers, stationary	July 28, 1896
564,951	Washburn, A. H.	Lighting, systems	July 28, 1896
564,955	Brunswick and Johnson	Railways, systems, overhead, trolleys	July 28, 1896
564,968	Buxton, F. E.	Connectors	Aug. 4, 1896
564,984	Fisk, C. H.	Railways, conductor supports and insulators	Aug. 4, 1896
564,994	Hart, H. W.	Conductors, underground	Aug. 4, 1896
565,032	Replogle, M. A.	Regulators, engine-control	Aug. 4, 1896
565,046	Stromberg and Carlson	Telephones, switchboards	Aug. 4, 1896
565,053	Tisdale, C. D.	Telegraphy, circuit-closers, thermal	Aug. 4, 1896
565,056	Waite, H. E.	Medical and surgical, baths	Aug. 4, 1896
565,080	Khotinsky, A. de	Telephones, systems	Aug. 4, 1896
565,085	Mattson, C. D.	Railways, sectional conductor, mechanical closers.	Aug. 4, 1896
565,086	Milliken, G. F.	Telegraphy, fire, non-interfering	Aug. 4, 1896
565,092	Root, Reed, and Hale	Lights, incandescent, special features	Aug. 4, 1896
565,102	Brandenburg, H.	Railways, systems, conduit	Aug. 4, 1896
565,103	Brandenburg, H.	do	Aug. 4, 1896
565,128	Yetman, C. E.	Telegraphy, printing	Aug. 4, 1896
565,136	Date, Heffron, Scranton, and Scudder	Stoves and furnaces, heaters, electric	Aug. 4, 1896
565,138	Gale, H. B.	Motors, transmission of power, direct	Aug. 4, 1896
565,139	Gale, H. B.	Regulators, engine-control	Aug. 4, 1896
565,140	Hübner, G.	Batteries, secondary	Aug. 4, 1896
565,150	Williams, J. T.	Railway signals, sectional rail	Aug. 4, 1896
565,155	Conner, MacMillan, and Fuller	Railway rolling-stock, locomotives, electric, geared.	Aug. 4, 1896
565,174	McCarthy, L.	Railways, conductor supports and insulators	Aug. 4, 1896
565,178	Reed, H. A.	Telegraphy, circuit-closers, thermal	Aug. 4, 1896
565,188	Tisdale, C. D.	do	Aug. 4, 1896
565,202	Drake, F.	Telegraphy, fire, automatic	Aug. 4, 1896
565,217	Reed, H. A.	Telephones, systems, central	Aug. 4, 1896
565,240	Sherman and Kenyon	Railways, systems, conduit	Aug. 4, 1896
565,244	Tobey and Smith	Cut-outs, mechanical	Aug. 4, 1896
565,284	Lamme, B. G.	Regulators, alternating, compounding	Aug. 4, 1896
565,324	Blinnenberg, H.	Aqueous bath, chemicals	Aug. 4, 1896
565,344	Gilmore, H.	Connectors	Aug. 4, 1896
565,385	Garl, M.	Telephones, systems, intermediate sub-station.	Aug. 4, 1896
565,407	Fickemeyer, R.	Railways, systems, battery	Aug. 4, 1896
565,410	Gould, J. D.	Telegraphy, circuit-closers, thermal	Aug. 4, 1896
565,491	Meyer, O. E.	Electrolysis, purifying liquids, water	Aug. 11, 1896
565,518	Shoecraft, J.	Railway signals, block	Aug. 11, 1896
565,529	Caemmerer and Mayer	Magneto-electric, multipolar	Aug. 11, 1896
565,530	Caemmerer and Mayer	do	Aug. 11, 1896
565,541	Hubbell, H.	Lights, sockets and keys	Aug. 11, 1896
565,571	Jenny, F. W. S.	Igniting devices, manual	Aug. 11, 1896
565,574	Sill, R. van R.	Stoves and furnaces, heaters, electric	Aug. 11, 1896
565,624	Linn, J. B.	Railways, sectional conductor, mechanical closers.	Aug. 11, 1896
565,627	Meyer, A. F. W.	Telephones, systems, central	Aug. 11, 1896
565,647	Thomson and Armstrong	Magneto-electric, armatures, drum	Aug. 11, 1896

## NUMERICAL INDEX—ELECTRICITY.

No.	NAME.	CLASS.	DATE.
565,657	Ader, C	Telegraphy, automatic	Aug. 11, 1896
565,662	Bach, C	Cut-outs, mechanical, oscillating snap	Aug. 11, 1896
565,671	Cummings, M. S	Railways, track cleaners, removing weeds	Aug. 11, 1896
565,672	Daniels, F. H	Conductors, connectors	Ang. 11, 1896
565,673	Dennis, W. L	Telegraphy, fire, automatic	Ang. 11, 1896
565,725	Dailey, J. B	Railways, systems, overhead, trolleys	Aug. 11, 1896
565,727	Dickerson, E. N	Lighting, systems, secondary-battery	Aug. 11, 1896
565,739	Gilman, W. H	Music, electric actions	Aug. 11, 1896
565,740	Goold, F. D' A	Lighting, systems, secondary-battery	Aug. 11, 1896
565,741	Goold, F. D' A	do	Aug. 11, 1896
565,761	Lipseomh, H. E	Annunciators, time	Aug. 11, 1896
565,775	Moore, D. McF	Lighting, systems, display	Aug. 11, 1896
565,776	Moore, D. McF	Lighting, systems	Aug. 11, 1896
565,777	Moore, D. McF	do	Aug. 11, 1896
565,811	Stillwell, L. B	do	Aug. 11, 1896
565,823	Andrews, R. McG	Telephones, systems, multiple switchboard, test	Ang. 11, 1896
565,839	Coleman, J. P	Railway signals, sectional rail	Ang. 11, 1896
565,861	Mosher and Bartholomew	Lights, arc and incandescent	Aug. 11, 1896
565,862	McFarlane and Edgar	Lights, sockets and keys	Ang. 11, 1896
565,867	Warner, E. P	Motors, hand-operating devices	Aug. 11, 1896
565,913	Mordeu, W. J	Lighting, systems, car	Ang. 18, 1896
565,930	Short, S. H	Magneto-electric, multipolar	Ang. 18, 1896
565,931	Short, S. H	Magneto-electric, armatures, drum	Ang. 18, 1896
565,933	Smith, A. P	Railway signals, block systems	Aug. 18, 1896
565,936	Sperry, E. A	Railway rolling-stock, locomotives, electric	Aug. 18, 1896
565,937	Sperry, E. A	Railway-brakes, magnetic shoes	Aug. 18, 1896
565,938	Sperry, E. A	Railway rolling-stock, locomotives, electric	Aug. 18, 1896
565,939	Sperry, E. A	Railway-brakes, electric	Aug. 18, 1896
565,944	Toward, C. P	Conductors, insulators	Aug. 18, 1896
565,952	Andreoli, E	Electrolysis, synthesis, ozone	Aug. 18, 1896
565,953	Andreoli, E	Electrolysis, aqueous bath, ores	Aug. 18, 1896
565,965	Curran, J	Telephones, details	Aug. 18, 1896
565,968	Durant, Dean, and Childs	Telephones, systems, divided central	Aug. 18, 1896
565,971	Fisher, H. J	Lights, arc, gravity-feed, gear-clutch	Aug. 18, 1896
565,975	George, J. H	Aqueous bath, apparatus	Aug. 18, 1896
565,985	Hoffman, J	Railways, sectional conductor, magnetic closers	Aug. 18, 1896
565,991	Jacobson, E. B	Lights, sockets and keys	Aug. 18, 1896
566,011	Oelschläger and Schrottke	Telegraphy, lightning-arresters	Aug. 18, 1896
566,022	Ruebel, C. A. E	Telephones, multiple-electrode	Aug. 18, 1896
566,035	Stobrawa, M	Railways, systems, conduit	Aug. 18, 1896
566,045	Whitaker and Treharne	Conductors, insulators	Aug. 18, 1896
566,064	Damou, G. B	Conductors	Aug. 18, 1896
566,103	Waite, H. F	Conductors, rheostats	Ang. 18, 1896
566,120	Ahlm, C. E. F	Magneto-electric, multipolar	Aug. 18, 1896
566,161	Furstemann, M. C	Railways, systems, overhead, trolleys	Aug. 18, 1896
566,193	Kueneth, Schreier, and Kueneth	Lights, incandescent, special features	Aug. 18, 1896
566,235	Sheffield, G. V	Alarms	Aug. 18, 1896
566,237	Short, S. H	Railways, systems, overhead, trolleys	Aug. 18, 1896
566,252	Van Hoogstrate, J	do	Aug. 18, 1896
566,283	Beckwith, D. O	Railway signals, block systems	Aug. 18, 1896
566,285	Cazin, F. M. F	Lights, incandescent	Aug. 18, 1896
566,287	Gahlau, E	do	Ang. 18, 1896
566,288	Badt and Lyford	Magneto-electric, armatures, ring	Aug. 25, 1896
566,298	Cox and Crowley	Telegraphy, automatic	Aug. 25, 1896
566,313	Hammer, E. G	Horology, clocks, electric	Aug. 25, 1896
566,334	Müuch, A	Telephones, details	Aug. 25, 1896
566,345	Short, S. H	Railways, systems, overhead, trolleys	Aug. 25, 1896
566,366	Woods, C. E	Magneto-electric, brushes and holders	Aug. 25, 1896
566,376	Cooper, W	Railways, conductor supports and insulators	Aug. 25, 1896
566,397	Hull, W. S	Railways, sectional conductor, traveling closers	Aug. 25, 1896
566,400	Johnson, C. H	Railway rolling-stock, locomotives, electric	Aug. 25, 1896
566,416	Schwarze, C. J	Telephones, granular	Aug. 25, 1896
566,426	Sperry, E. A	Motors, hand-operating devices	Aug. 25, 1896
566,442	Cahill, T	Type-writing machines, electric	Aug. 25, 1896
566,468	Oliver, J. B	Conductors, insulators	Aug. 25, 1896
566,499	Coleman, J. P	Railway signals	Aug. 25, 1896
566,503	Culgan, J. P	Railway signals, sectional rail	Aug. 25, 1896
566,507	Erickson, F. W	Conductors, house-wiring	Aug. 25, 1896
566,526	McGuire and Hubbard	Railway rolling-stock, electric motors, rigid frame	Aug. 25, 1896
566,537	Robinson, T. C	Motors, reciprocating	Aug. 25, 1896
566,541	Schreuder, J. G	Railway signals, sectional rail	Aug. 25, 1896
566,542	Skinner, C	Railways, sectional conductors, mechanical closers	Aug. 25, 1896

No.	NAME.	CLASS.	DATE.
566,545	Snyder and Tinnerholm	Stoves and furnaces, heaters, electric	Ang. 25, 1896
566,564	Dewey, M. W.	do	Ang. 25, 1896
566,573	Hacking and Brand	Meters	Aug. 25, 1896
566,579	Heureux and Faneuf	Railway rolling-stock, locomotives, electric	Aug. 25, 1896
566,612	O'Connor and Turner	Alarms, aqueous	Aug. 25, 1896
566,613	O'Connor and Turner	do	Aug. 25, 1896
566,648	Bennett, Somerville, and McLeau	Telephones, systems, central	Aug. 25, 1896
566,652	Bosley, W. S.	Lights, incandescent, special features	Aug. 25, 1896
566,673	Fielding and Walker	Aqueous bath, apparatus	Aug. 25, 1896
566,693	Leonard, H. W.	Conductors, rheostats	Aug. 25, 1896
566,697	Place, J. F.	Conductors	Aug. 25, 1896
566,709	Bryan, J.	Conductors, connectors	Aug. 25, 1896
566,714	Hornig, J. L.	Railways, sectional conductors, mechanical closers	Aug. 25, 1896
566,760	Hornig, J. L.	Cut-outs, mechanical, oscillating spring	Sept. 1, 1896
566,762	Hovey, E. G.	Telephones, systems, house	Sept. 1, 1896
566,784	Merrick and Brook	Telephones, calls, step-by-step	Sept. 1, 1896
566,786	Murphy and Pierce	Railways, sectional conductors, mechanical closers	Sept. 1, 1896
566,801	Robinson, W. R.	do	Sept. 1, 1896
566,829	Wietlisbach, V.	Telephones, systems, multiple switchboard, divided central	Sept. 1, 1896
566,843	Cole, F. W.	Bells	Sept. 1, 1896
566,860	Hicks, T. H.	Regulators	Sept. 1, 1896
566,874	Sinclair, W. E.	Cut-outs, mechanical, oscillating snap	Sept. 1, 1896
566,887	Berrigan, W. H.	Railway signals, sectional rail	Sept. 1, 1896
566,889	Bram, J.	Motors	Sept. 1, 1896
566,892	Chute, C. A.	Lights, sockets and keys	Sept. 1, 1896
566,894	Danckwardt, P.	Mills, amalgamators, electric	Sept. 1, 1896
566,896	Duppler, A.	Telephones, calls, step-by-step	Sept. 1, 1896
566,914	Le Blanc, A.	Telephones, calls, strength and polarity	Sept. 1, 1896
566,915	Le Blanc, A.	do	Sept. 1, 1896
566,916	Le Blanc, A.	do	Sept. 1, 1896
566,917	Le Blanc, A.	Telegraphy, transmitters	Sept. 1, 1896
566,918	Le Blanc, A.	Special applications, electromagnets	Sept. 1, 1896
566,925	Munson, A. L.	Measuring instruments, balances, electrical attachments	Sept. 1, 1896
566,936	Putnam, J. E.	Regulators, resistance	Sept. 1, 1896
566,951	Webb, H. L.	Telephones, calls, step-by-step	Sept. 1, 1896
566,984	Hanter, R. M.	Railways, systems, overhead, trolleys	Sept. 1, 1896
567,023	Dunn, D. W.	Regulators, resistance	Sept. 1, 1896
567,044	Rhodin, J. G. A.	Batteries, secondary	Sept. 1, 1896
567,045	Rhodin, J. G. A.	do	Sept. 1, 1896
567,077	Enchell, N. L.	Telephones, granular	Sept. 1, 1896
567,112	Sullivan, J. A.	Telephones, calls, step-by-step	Sept. 1, 1896
567,118	Canales, F. W.	Railways, systems, overhead, trolleys	Sept. 1, 1896
567,119	Eickemeyer, R.	Motors, alteruating	Sept. 1, 1896
567,132	Green, R. P.	Telephones, granular	Sept. 8, 1896
567,133	Handshy, H. M.	Railways, systems, overhead	Sept. 8, 1896
567,137	Hewlett, E. M.	Telegraphy, lightning-arresters, maguetic	Sept. 8, 1896
567,170	Rousseau, D.	Telephones, switches	Sept. 8, 1896
567,176	Unger, P.	Telegraphy, circuit-closers, burglar	Sept. 8, 1896
567,186	Cassidy, P.	Railways, systems, overhead	Sept. 8, 1896
567,197	Rice, E. W., Jr.	Regulators, alternating	Sept. 8, 1896
567,223	Young and Norton	Telegraphy, railway-car	Sept. 8, 1896
567,223	Dean, W. W.	Conductors, rheostats	Sept. 8, 1896
567,227	Faure and Mac Haffie	Lights, arc, positive-feed, step gear-clutch	Sept. 8, 1896
567,237	Hobart, H. M.	Inductormums, transformers, stationary	Sept. 8, 1896
567,247	Meek, J. E.	Stoves and furnaces, heaters, electric	Sept. 8, 1896
567,248	Meek, J. E.	do	Sept. 8, 1896
567,250	Moody, W. S.	Inductormums, transformers, stationary	Sept. 8, 1896
567,257	Scott, G. H.	Conductors, connectors	Sept. 8, 1896
567,306	Dyer, R. N.	Railways, systems, overhead, trolleys	Sept. 8, 1896
567,307	Dyer, R. N.	do	Sept. 8, 1896
567,322	Snowden, E. P.	Lights, arc, special features	Sept. 8, 1896
567,324	Stromberg and Carlson	Telephones, granular	Sept. 8, 1896
567,338	Farmer, J. R.	Railway signals, block	Sept. 8, 1896
567,355	Palmer, H. R.	Lights, arc, gravity-feed, ring-clutch	Sept. 8, 1896
567,366	Thnnderboldt, E.	Regulators, engine-control	Sept. 8, 1896
567,404	McBerty, F. R.	Telephones, systems, multiple switchboard, divided central	Sept. 8, 1896
567,411	Priest, E. D.	Railways, systems, overhead, trolleys	Sept. 8, 1896
567,416	Scofield and Wayland	Railways, general	Sept. 8, 1896
567,422	Thompson, M. L.	Medical and surgical	Sept. 8, 1896
567,423	Thnry, R.	Magneto-electric, multipolar	Sept. 8, 1896
567,424	Thury, R.	do	Sept. 8, 1896
567,472	Henszey, W. P.	Railway rolling-stock, motors, bogies	Sept. 8, 1896

NO.	NAME.	CLASS.	DATE.
567,474	Hews, J. E	Railways, systems, overhead, trolleys	Sept. 8, 1896
567,487	Mann, E. F	Railways, general	Sept. 8, 1896
567,503	Pelatan and Clerici	Aqueous bath, ores	Sept. 8, 1896
567,517	Sill, C	Railways, sectional conductor, mechanical closers	Sept. 8, 1896
567,531	Arnold, W. S	Lights, incandescent, special features	Sept. 8, 1896
567,540	Grassler, W. F	Railways, systems, condnit	Sept. 8, 1896
567,550	Petererit, A	Lights, incandescent, special features	Sept. 8, 1896
567,560	Bagnall, E. J	Railway rolling-stock, locomotives, geared	Sept. 8, 1896
567,586	Dorman, G. E	Magneto-electric, bipolar	Sept. 15, 1896
567,599	Kips, J	Annunciators	Sept. 15, 1896
567,608	Parshall, H. F	Cut-onts, elctromagnets	Sept. 15, 1896
567,643	Frear, H. P.	Indicators, station	Sept. 15, 1896
567,651	Merriam, H. P	Regulators, resistance	Sept. 15, 1896
567,657	Roome, W. G	Fences, railway gates, electric	Sept. 15, 1896
567,662	Short, S. H	Railway rolling-stock, locomotives, geared	Sept. 15, 1896
567,688	Rankin, R. F	Telephones, electric	Sept. 15, 1896
567,690	Sackett, O. R	Railways, systems, overhead, trolleys	Sept. 15, 1896
567,691	Salberg, P. R	Lights, arc, gravity-feed, gear-clutch	Sept. 15, 1896
567,694	Smith, W. P.	Aqueous bath	Sept. 15, 1896
567,699	Vincent, J. A.	Metallurgy, furnaces, electric	Sept. 15, 1896
567,714	Herdman, F. E	Regulators, resistance	Sept. 15, 1896
567,719	Libbey, H. W	Magneto-electric, multipolar	Sept. 15, 1896
567,721	Payson, J. R	Electro-chemistry, batteries, gas	Sept. 15, 1896
567,745	Haerer and Gikeheiter	Magneto-electric, communicator and collector	Sept. 15, 1896
567,746	Haerer and Gikeheiter	Magneto-electric, armatures, ring	Sept. 15, 1896
567,753	Selden, C	Railway signals, sectional rail	Sept. 15, 1896
567,754	Selden, C	do	Sept. 15, 1896
567,759	Wilkinson, C. P	Railway signals, block	Sept. 15, 1896
567,760	Wilkinson, C. P	do	Sept. 15, 1896
567,784	Hanson, A	Railways, systems, overhead	Sept. 15, 1896
567,794	Ries, E. E	Telephones, switches	Sept. 15, 1896
567,816	Skeen, N	Railway signals, block	Sept. 15, 1896
567,818	Tesla, N	Telegraphy, condensers	Sept. 15, 1896
567,840	McLaughlin, J. M	Lights, arc, gravity-feed, clutch	Sept. 15, 1896
567,841	McLaughlin, J. M	Conductors, connectors	Sept. 15, 1896
567,845	Ward, W. H	Alarms, burglar, safe	Sept. 15, 1896
567,864	Du Pout, T. C	Railway rolling-stock, electric-motor, rigid-frame	Sept. 15, 1896
567,865	Pratt, W. T. C	Railways, signals, automatic	Sept. 15, 1896
567,872	Weaver, O. B	Alarms, burglar	Sept. 15, 1896
567,879	Birth, F. S	Railways, systems, overhead, trolleys	Sept. 15, 1896
567,899	Hayn, F. M. N. E	do	Sept. 15, 1896
567,911	Merritt, O. J	Indicators, station	Sept. 15, 1896
567,912	Merritt, O. J	do	Sept. 15, 1896
567,921	Scott and Shonrord	Lighting, systems, display	Sept. 15, 1896
567,928	Van Hoevenbergh, H	Igniting devices	Sept. 15, 1896
567,939	Borchers, W	Batteries, gas	Sept. 22, 1896
567,971	Galbraith, G. J	Igniting devices, manual	Sept. 22, 1896
567,975	Grunow, W., Jr	Railways, sectional condnctor, mechanical closers	Sept. 22, 1896
567,976	Hadaway, W. S., Jr	Stoves and furnaces, heaters, electric	Sept. 22, 1896
567,982	Hoffmann, E. W. G. C	Lighting, systems, automatic-regulation	Sept. 22, 1896
567,984	Knollmann, G. F	Railway signals, cab, sectional rail	Sept. 22, 1896
567,989	Macdonald, A. F	Railway-brakes, brakes	Sept. 22, 1896
568,007	Thomson, H. C	Batteries, one-fluid, zinc	Sept. 22, 1896
568,013	Barney, T. R	Telegraphy, circuit-closers	Sept. 22, 1896
568,051	Summers, L. L	Fences, gates, electric	Sept. 22, 1896
568,060	Wood, W	Insulators	Sept. 22, 1896
568,079	Adams, W. S	Railway rolling-stock, motors	Sept. 22, 1896
568,088	Leonard, H. W	Motors, hand-operating devices	Sept. 22, 1896
568,095	Muir, J. L	Medical and surgical, electrodes	Sept. 22, 1896
568,099	Pelatan and Clerici	Aqueous bath, ores	Sept. 22, 1896
568,103	Runkle, O. M	Telegraphy, keys	Sept. 22, 1896
568,176	Tesla, N	Transmission of power, alternating	Sept. 22, 1896
568,177	Tesla, N	Electrolysis, ozone	Sept. 22, 1896
568,178	Tesla, N	Transmission of power, alternating	Sept. 22, 1896
568,179	Tesla, N	do	Sept. 22, 1896
568,180	Tesla, N	do	Sept. 22, 1896
568,204	Norden, M	Lighting, systems, display	Sept. 22, 1896
568,205	Norden, M	Alarms, burglar	Sept. 22, 1896
568,209	Rodriguez, A. M	Lights, incandescent, special features	Sept. 22, 1896
568,229	Blackman, H	Aqueous bath, anodes	Sept. 22, 1896
568,230	Blackman, H	do	Sept. 22, 1896
568,231	Blackman, H	do	Sept. 22, 1896
568,258	Knees, V. J	Aqueous bath	Sept. 22, 1896

No.	NAME.	CLASS.	DATE.
568,262	Lister, J. T.	Lights, incandescent	Sept. 22, 1896
568,298	Croskey and Locke	Conductors	Sept. 22, 1896
568,323	Acheson, E. G.	Electrolysis, fused bath	Sept. 29, 1896
568,335	Cornell, C. W.	Telegraphy, fire	Sept. 29, 1896
568,346	Giveu, J. L.	Telephones, details	Sept. 29, 1896
568,350	Hunting, F. L.	Motors, alternating, starters	Sept. 29, 1896
568,370	Ransom and Corrothers	Alarms	Sept. 29, 1896
568,374	Sellner, L.	Telegraphy, circuits and systems	Sept. 29, 1896
568,385	Underwood and Daniels	Conductors, connectors	Sept. 29, 1896
568,408	Mayer, F. W.	Lights, incandescent, special features	Sept. 29, 1896
568,412	Ramage, A. S.	Aqueous bath, cathodes	Sept. 29, 1896
568,413	Short, S. H.	Magneto-electric, brushes and holders	Sept. 29, 1896
568,414	Short, S. H.	do	Sept. 29, 1896
568,415	Short, S. H.	do	Sept. 29, 1896
568,423	Beach, C. E.	Annunciators, drop	Sept. 29, 1896
568,430	Cowhig, J. J.	do	Sept. 29, 1896
568,444	Kelch, W. M.	Annunciators, step-by-step	Sept. 29, 1896
568,447	King, F.	Batteries, secondary	Sept. 29, 1896
568,450	Meek, J. E.	Cut-outs, mechanical, rotary	Sept. 29, 1896
568,451	Meek, J. E.	Telegraphy, circuit-closers	Sept. 29, 1896
568,452	McCallum, W. A.	Railways, conductor supports and insulators	Sept. 29, 1896
568,458	Potter and Case	Regulators, alternating	Sept. 29, 1896
568,459	Potter, W. B.	Telegraphy, lightning-arresters	Sept. 29, 1896
568,464	Steinmetz, C. P.	Regulators, alternating, compounding	Sept. 29, 1896
568,475	Cruyt, W. J.	Horology, clocks, electric	Sept. 29, 1896
568,493	Rowand, L. G.	Telegraphy, fire, automatic	Sept. 29, 1896
568,494	Rowand, L. G.	Telegraphy, fire	Sept. 29, 1896
568,495	Rowand, L. G.	do	Sept. 29, 1896
568,506	Wellman, H. R.	Motive-power, elevators	Sept. 29, 1896
568,512	Buckingham, Germann, and Gardam	Telegraphy, perforating	Sept. 29, 1896
568,513	Buckingham and Germann	Telegraphy, printing, multiple-wheel	Sept. 29, 1896
568,514	Buckingham and Germann	Telegraphy, perforating	Sept. 29, 1896
568,515	Buckingham and Germann	do	Sept. 29, 1896
568,516	Buckingham, Gardam, and Germann	do	Sept. 29, 1896
568,523	Davis, C. E.	Railways, systems, overhead	Sept. 29, 1896
568,526	Drawbaugh, D.	Telephones, granular	Sept. 29, 1896
568,527	Dunn, D. M.	Telegraphy, relays and sounders	Sept. 29, 1896
568,566	Herdman, F. E.	Motors, hand-operating devices	Sept. 29, 1896
568,567	Herdman, F. E.	Motive-power, elevators	Sept. 29, 1896
568,568	Herdman, F. E.	do	Sept. 29, 1896
568,569	Herdman, F. E.	do	Sept. 29, 1896
568,570	Herdman, F. E.	do	Sept. 29, 1896
568,571	Herdman, F. E.	do	Sept. 29, 1896
568,573	Howe, E. C.	Lights, incandescent, special features	Sept. 29, 1896
568,577	Marcnce, H.	Telephones, supports	Sept. 29, 1896
568,606	Garing, A.	Railway signals, block systems	Sept. 29, 1896
568,608	Gibbs, W. A.	Alarms	Sept. 29, 1896
568,644	Timpson and Rankin	Railway signals, railway	Sept. 29, 1896
568,650	Williams, G. H.	Conductors, connectors	Sept. 29, 1896
568,668	Davey, F.	Bells	Sept. 29, 1896
568,675	Greville-Williams, R.	Telegraphy, automatic	Sept. 29, 1896
568,682	Honey, A. A.	Railway rolling-stock, locomotives	Sept. 29, 1896
568,693	Mills, N. T.	Bells	Sept. 29, 1896
568,713	Bensou, C. C.	Conductors, connectors	Sept. 29, 1896
568,720	Hamerschlag, A. A.	Lighting, systems, display	Sept. 29, 1896
568,721	Jandns, W.	Lights, arc, gravity-feed, clutch	Sept. 29, 1896
568,724	Andreoli, E.	Aqueous bath, apparatus	Oct. 6, 1896
568,740	Carson, G. J.	Lights, incandescent, special features	Oct. 6, 1896
568,741	Cassell, H. R.	Aqueous bath, ores	Oct. 6, 1896
568,756	Guillaume, M.	Conductors	Oct. 6, 1896
568,783	Meek and Powers	Lights, sockets and keys	Oct. 6, 1896
568,798	Shefbauer, R.	Lights, arc, gear-feed, gravity-clutch	Oct. 6, 1896
568,838	Crowley, R. O.	Lighting, systems, display	Oct. 6, 1896
568,840	Davis, L. W.	Telephones, switchboards	Oct. 6, 1896
568,843	Engelhardt and Nettel	Aqueous bath, ores	Oct. 6, 1896
568,859	Lodge and Lodge	Indicators	Oct. 6, 1896
568,861	Meade, N. G.	Lights, arc, positive-feed, step gear-clutch	Oct. 6, 1896
568,863	Moore, D. McF.	Lighting, systems	Oct. 6, 1896
568,891	Bassett, N. C.	Railway rolling-stock, locomotives	Oct. 6, 1896
568,918	Newton, H. C.	Conductors, connectors	Oct. 6, 1896
568,919	Pass and Seymour	Lights, sockets and keys	Oct. 6, 1896
568,947	Hicks, T. H.	Motors, reciprocating	Oct. 6, 1896
568,964	Thompson, S. P.	Telephones, anti-induction devices	Oct. 6, 1896
568,971	Erhardt, W.	Cut-outs, thermal, successive	Oct. 6, 1896
568,993	Sykes and O'Donnell	Railway signals, railway	Oct. 6, 1896
569,018	Gartner, A.	Telephones, details	Oct. 6, 1896
569,072	Tackaberry, J. A.	Railway rolling-stock, motors	Oct. 6, 1896

## NUMERICAL INDEX—ELECTRICITY.

No	NAME.	CLASS.	DATE.
569,099	Girod, F. E.	Clocks, electric	Oct. 6, 1896
569,101	Hauerwas, E. A.	Railway-brakes, magnetic shoes	Oct. 6, 1896
569,122	Naville and Guye	Electrolysis, synthesis	Oct. 6, 1896
569,173	Cassel, H. R.	Aqueous bath, chemicals	Oct. 13, 1896
569,246	Smith, L. C.	Railway signals, block systems	Oct. 13, 1896
569,262	Wayland, J.	Special applications, electromagnets	Oct. 13, 1896
569,263	Wayland, J.	Railway signals, sectional rail	Oct. 13, 1896
569,264	Wayland, J.	do	Oct. 13, 1896
569,265	Wayland, J.	do	Oct. 13, 1896
569,266	Wightman, M. J.	Conductors, connectors	Oct. 13, 1896
569,299	Perkins, C. G.	Cut-outs, mechanical, rotary	Oct. 13, 1896
569,300	Powell, W. H.	do	Oct. 13, 1896
569,301	Powell, W. H.	do	Oct. 13, 1896
569,302	Powell, W. H.	do	Oct. 13, 1896
569,309	Thomas, G. B.	do	Oct. 13, 1896
569,325	Dankwardt, P.	Aqueous bath, fused bath	Oct. 13, 1896
569,331	Gorton, A.	Railways, sectional conductor, mechanical closers	Oct. 13, 1896
569,332	Hart, G. W.	Cut-outs, mechanical, rotary	Oct. 13, 1896
569,338	Kissinger, W. S.	Railways, conductor supports and insulators	Oct. 13, 1896
569,352	Randall, C. F.	Railways, systems, overhead, trolleys	Oct. 13, 1896
569,373	Downes, L. W.	Cut-outs, thermal	Oct. 13, 1896
569,376	Gordon, A. J.	Telephones, supports	Oct. 13, 1896
569,380	Hollingsworth, M. W.	Motive-power, dental instruments	Oct. 13, 1896
569,385	North, C. II	Magneto-electric, hand-machines	Oct. 13, 1896
569,401	Barrett, J. A.	Telephones, systems, intermediate sub-station	Oct. 13, 1896
569,424	Parrish, H. A.	Railway signals, block	Oct. 13, 1896
569,432	Shover and Townsend	Railways, sectional conductor, mechanical closers	Oct. 13, 1896
569,443	Wood, G. T.	Motors, transmission of power, direct	Oct. 13, 1896
569,470	Raverot and Hess	Telephones, systems, multiple switchboard, divided central	Oct. 13, 1896
569,529	Vellines, B. H.	Medical and surgical, body-wear	Oct. 13, 1896
569,538	Booth, A. C.	Generation, systems of distribution	Oct. 13, 1896
569,551	Donbavand, J. E.	Railway signals, sectional rail	Oct. 13, 1896
569,576	Emmett, G.	Cut-outs, mechanical	Oct. 13, 1896
569,591	Short, S. H.	Batteries, carbon	Oct. 13, 1896
569,618	Dickerson, M.	Railways, systems, conduit	Oct. 20, 1896
569,634	Gharky, W. D.	Lighting, systems, safety	Oct. 20, 1896
569,649	Luce, J. E.	Medical and surgical, body-wear	Oct. 20, 1896
569,692	Voorhees, G. F.	Cut-outs, thermal, plug	Oct. 20, 1896
569,709	Gibbs, G.	Railway signals, sectional rail	Oct. 20, 1896
569,713	Haug, H.	Conductors, connectors	Oct. 20, 1896
569,722	Morrow, J. T.	Aqueous bath, ores	Oct. 20, 1896
569,727	Taylor, W. L.	Lights, sockets and keys	Oct. 20, 1896
569,738	Bassett, N. C.	Railways, systems, overhead, trolleys	Oct. 20, 1896
569,746	Collins, H. B.	Motors	Oct. 20, 1896
569,748	Edmunds, H.	Conductors	Oct. 20, 1896
569,752	Gartner, A.	Conductors, connectors	Oct. 20, 1896
569,753	Gartner, A.	do	Oct. 20, 1896
569,754	Gibboney, J. W.	Magneto-electric, bipolar	Oct. 20, 1896
569,756	Holz, O.	Railways, systems, overhead, trolleys	Oct. 20, 1896
569,772	Short, S. H.	do	Oct. 20, 1896
569,785	Cram, W. E.	Igniting devices, manual	Oct. 20, 1896
569,802	Schmid, A.	Railways, electric locomotives	Oct. 20, 1896
569,803	Scott, C. F.	Cut-outs, thermal	Oct. 20, 1896
569,807	Williams, J. T.	Telephones, calls	Oct. 20, 1896
569,817	Davis, H. P.	Lights, arc, gravity-feed, gear-clutch	Oct. 20, 1896
569,824	Hand, W. M.	Magneto-electric, brushes and holders	Oct. 20, 1896
569,827	Henry, J. C.	Railways, systems, overhead	Oct. 20, 1896
569,851	Baer, H.	Alarms	Oct. 20, 1896
569,861	Dowden, C. H.	Telegraphy, circuit-closers, burglar	Oct. 20, 1896
569,866	Freeman, W. E.	Motors	Oct. 20, 1896
569,881	Morris, J. E.	Lights, arc, gravity-feed, ring-clutch	Oct. 20, 1896
569,882	Moulart, A. J.	Telegraphy, circuit-closers	Oct. 20, 1896
569,889	Seymour, H. A.	Railways, systems, overhead, trolleys	Oct. 20, 1896
569,908	Alexander, H. C.	Telephones, granular	Oct. 20, 1896
569,931	Moffatt, J. M.	Lights, sockets and keys	Oct. 20, 1896
569,960	Drake, C. C.	Cut-outs, electromagnetic	Oct. 20, 1896
569,989	Anthony, W. A.	Motors, hand-operating devices	Oct. 27, 1896
570,009	Dinky, A. C.	do	Oct. 27, 1896
570,013	Gordon, R. W.	Batteries, secondary	Oct. 27, 1896
570,014	Gordon, R. W.	do	Oct. 27, 1896
570,019	Hummel, G.	Meters	Oct. 27, 1896
570,028	Langelaan, J.	Batteries, secondary	Oct. 27, 1896
570,034	Martin and Hewlett	Railways, conductor supports and insulators	Oct. 27, 1896

No.	NAME.	CLASS.	DATE.
570,046	Parrish, A. A.	Rail way signals, block	Oct. 27, 1896
570,053	Pyle, G. C.	Lights, arc, gravity-feed	Oct. 27, 1896
570,062	Schreuder, J. G.	Rail way signals	Oct. 27, 1896
570,068	Stewart, S. A.	Cut-outs, electromagnetic	Oct. 27, 1896
570,072	Tiffany, G. S.	Telegraphy, automatic	Oct. 27, 1896
570,078	Whiting, W. M.	Railways, systems, overhead, trolleys	Oct. 27, 1896
570,089	Gibbs, G.	Railway signals, sectional rail	Oct. 27, 1896
570,112	Tiffany, G. S.	Telephones, automatic	Oct. 27, 1896
570,118	Bradley, C. S.	Systems of distribution	Oct. 27, 1896
570,119	Bradley, C. S.	Railways, electric locomotives	Oct. 27, 1896
570,133	May, W. D. C.	Aqueous bath, apparatus	Oct. 27, 1896
570,140	McCarthy, L.	Railways, conductor supports and insulators	Oct. 27, 1896
570,165	Greenfield, E. T.	Conductors	Oct. 27, 1896
570,166	Greenfield, E. T.	do	Oct. 27, 1896
570,167	Greenfield, E. T.	do	Oct. 27, 1896
570,168	Greenfield, E. T.	do	Oct. 27, 1896
570,169	Greenfield, E. T.	do	Oct. 27, 1896
570,170	Greenfield, E. T.	do	Oct. 27, 1896
570,172	Herrick, A. B.	Cut-outs, mechanical, oscillating snap	Oct. 27, 1896
570,204	Gartner, A.	Telephones, supports	Oct. 27, 1896
570,212	Wurts, A. J.	Cut-outs, electro-magnetic	Oct. 27, 1896
570,256	Lavens, E.	Conductor, house-wirings	Oct. 27, 1896
570,258	Lowman, B. J.	Telegraphy, circuit-closers, thermal	Oct. 27, 1896
570,310	Kelly, J. F.	Transformers, stationary	Oct. 27, 1896
570,328	Norman, A.	Railways, sectional conductor, magnetic closers.	Oct. 27, 1896
570,373	Brown, W. S.	Railways, systems	Oct. 27, 1896
570,406	Johnson, G. P.	Cut-outs, electromagnetic	Oct. 27, 1896
570,410	Perkins, F. B.	Motive-power, elevators	Oct. 27, 1896
570,411	Schmidt, G. A.	Lights, incandescent, special features	Oct. 27, 1896
570,414	Wurts, A. J.	Cut-outs, electromagnetic	Oct. 27, 1896
570,415	Wnrtz, A. J.	Lighting, systems, safety	Oct. 27, 1896
570,416	Wurts, A. J.	do	Oct. 27, 1896
570,417	Wnrtz, A. J.	Cut-outs, electromagnetic	Oct. 27, 1896
570,418	Wurts, A. J.	Cut-outs, mechanical, rotary	Oct. 27, 1896
570,419	Wurts, A. J.	Cut-outs, mechanical	Oct. 27, 1896
570,424	Brinkman, S. G.	Motors	Oct. 27, 1896
570,454	Coleman, C.	Galvanometers	Nov. 3, 1896
570,473	Graham, J. H.	Railway rolling-stock, motors	Nov. 3, 1896
570,475	Hance, J. A.	Railways, systems, overhead, trolleys	Nov. 3, 1896
570,481	Hunter, R. M.	Galvanometers	Nov. 3, 1896
570,508	Segerzahl, R.	Bells	Nov. 3, 1896
570,517	Swan, A.	Lights, sockets and keys	Nov. 3, 1896
570,565	Reagan, H. C.	Railways, sectional conductor, magnetic closers.	Nov. 3, 1896
570,566	Reagan, H. C.	do	Nov. 3, 1896
570,599	Kapp, G.	Systems of distribution	Nov. 3, 1896
570,616	Steinkoenig, F.	Alarms, burglar	Nov. 3, 1896
570,619	Weise, C. H.	Batteries, secondary	Nov. 3, 1896
570,663	Easton, J. W.	Regulators, resistance	Nov. 3, 1896
570,700	Dixon, T. B.	Rail way signals, sectional rail	Nov. 3, 1896
570,740	Walton, F. T.	Railways, systems, overhead, trolleys	Nov. 3, 1896
570,773	Sandbeck, C. N.	Telephones, switches	Nov. 3, 1896
570,808	Johl and Christian	Telegraphy, lightning-arresters	Nov. 3, 1896
570,823	Seymour, H. A.	Lights, arc, gravity-feed, ring-clutch	Nov. 3, 1896
570,824	Seymour, H. A.	do	Nov. 3, 1896
570,825	Chester, D. A.	Lights, filaments and carbons	Nov. 3, 1896
570,827	Strohm, S. D.	Motive-power, elevators	Nov. 3, 1896
570,839	Bovet, A. de	Railways, telpher and towing	Nov. 3, 1896
570,840	Brooks, M.	Telephones, systems, house	Nov. 3, 1896
570,852	Higgins, F. W. H.	Telegraphy, printing, multiple wheel	Nov. 3, 1896
570,878	McElroy, J. F.	Cut-outs, mechanical, rotary	Nov. 3, 1896
570,882	Rowand, L. G.	Lighting, systems, safety	Nov. 3, 1896
570,906	Coleman, C.	Alarms, burglar	Nov. 10, 1896
570,911	Davis, G. H.	Music, electric actions	Nov. 10, 1896
570,914	Dorman, G. E.	Magneto-electric, bipolar	Nov. 10, 1896
570,945	McLaughlin, J. F.	Railways, locomotives, motor on axle	Nov. 10, 1896
570,955	Pratt and Ripley	Cut-outs, electromagnetic	Nov. 10, 1896
570,967	Stamm, J.	Annunciators, drop system	Nov. 10, 1896
571,032	Wirt, Green, and Burger	Meters	Nov. 10, 1896
571,036	Burger and McFall	do	Nov. 10, 1896
571,037	Burger and McFall	do	Nov. 10, 1896
571,043	Green, G. R.	Motors	Nov. 10, 1896
571,050	Marks, W. D.	Meters	Nov. 10, 1896
571,059	Allan, T. W.	Batteries, secondary	Nov. 10, 1896
571,084	Eldridge, Clarke, and Wambaugh	Electrolysis, synthesis	Nov. 10, 1896
571,091	Lovejoy, T. H.	Railway rolling-stock, motors	Nov. 10, 1896

No.	NAME.	CLASS.	DATE.
571,092	Macevoy, P. C	Railways, systems, overhead, trolleys	Nov. 10, 1896
571,093	Montgomery, E. H	Cnt-onts, thermal	Nov. 10, 1896
571,097	Powell, W. H	Cut-onts, electro magnetic	Nov. 10, 1896
571,099	Skinner, J. E	Telegraphy, lightning-arresters	Nov. 10, 1896
571,103	Wurts, A. J	do	Nov. 10, 1896
571,107	Coleman, J. P	Railway signals	Nov. 10, 1896
571,109	Culgan, J. P	Telegraphy, lightning-arresters	Nov. 10, 1896
571,119	Hibbard, W. W	Telegraphy, repeaters	Nov. 10, 1896
571,120	Hinckley, H. D	Railways, systems, overhead, trolleys	Nov. 10, 1896
571,137	Palmer, H. R	Lights, arc, special features	Nov. 10, 1896
571,143	Woodward, H	Batteries, secondary	Nov. 10, 1896
571,162	Harrison, E. M	Telephones, switches	Nov. 10, 1896
571,181	Wood, J. J	Magneto-electric, multipolar	Nov. 10, 1896
571,190	Harrison and Harrison	Telephones, magnetic	Nov. 10, 1896
571,218	Rusby, J. H	Lights, ceiling-block	Nov. 10, 1896
571,257	Appleyard, A. E	Stoves and furnaces, heaters	Nov. 10, 1896
571,263	Crawford, T	Railway rolling-stock, motors	Nov. 10, 1896
571,270	Kelly and Chesney	Systems of distribution	Nov. 10, 1896
571,288	Schmidt, E	Igniting devices, automatic	Nov. 10, 1896
571,297	Bossert, W. F	Conductors, house-wiring	Nov. 10, 1896
571,300	Chesney and Kelly	Systems of distribution	Nov. 10, 1896
571,301	Conner, D. E	Indicators, station	Nov. 10, 1896
571,305	Francis, J. C	Magneto-electric, hand-machines	Nov. 10, 1896
571,310	Lundell, R	Magneto-electric, multipolar	Nov. 10, 1896
571,351	Field, S. D	Telegraphy, relays and sounders	Nov. 17, 1896
571,363	Handy, W. W	Regulators, engine-control	Nov. 17, 1896
571,399	Rowan, D. N	Telephones, granular	Nov. 17, 1896
571,409	Sperry, E. A	Railway-brakes	Nov. 17, 1896
571,410	Sperry, E. A	do	Nov. 17, 1896
571,420	Warren, A. K	Magneto-electric, brushes and holders	Nov. 17, 1896
571,426	Agelasto, M. A	Measuring instruments, telethermometers	Nov. 17, 1896
571,435	Forrey, G. J	Railways, sectional conductor, mechanical closers	Nov. 17, 1896
571,440	Weidenreick and Monrath	Railways, telpher and towing	Nov. 17, 1896
571,441	Hibbard, W. H	Telegraphy, fire	Nov. 17, 1896
571,445	Jennings, F. A	Annunciators, step-by-step	Nov. 17, 1896
571,454	Potter, W. B	Railways, conductor supports and insulators	Nov. 17, 1896
571,455	Potter, W. B	do	Nov. 17, 1896
571,460	Smith, S. N	Batteries, two-fluid, zinc, nitrates	Nov. 17, 1896
571,462	Thomson and Geisenhouer	Magneto-electric, multipolar	Nov. 17, 1896
571,467	Armstrong, A. H	Regulators, alternating	Nov. 17, 1896
571,468	Barbour, T. P	Aqueous bath, ores	Nov. 17, 1896
571,472	Dixon, T. B	Railway signals, sectional rail	Nov. 17, 1896
571,478	Hutin and Leblanc	Motors, alternating	Nov. 17, 1896
571,488	Madden, J. W	Medical and surgical, body-wear	Nov. 17, 1896
571,489	Marquand and Lowden	Rheostats	Nov. 17, 1896
571,502	Wilson, R	Motive-power, elevators	Nov. 17, 1896
571,504	Barkalow and Crawford	Telephones, granular	Nov. 17, 1896
571,507	Buchanan, J. P	Railway signals, sectional rail	Nov. 17, 1896
571,517	Erb, L. M	Railways, systems, overhead, trolleys	Nov. 17, 1896
571,531	Langhans, R	Aqueous bath	Nov. 17, 1896
571,532	Langhans, R	do	Nov. 17, 1896
571,533	Langhans, R	Conductors, conductors	Nov. 17, 1896
571,539	Sawyer, W. H	Aqueous bath, chemicals	Nov. 17, 1896
571,591	Hargreaves and Bird	Conductors	Nov. 17, 1896
571,594	Johnston, W. H	Batteries, secondary	Nov. 17, 1896
571,598	Körner, J	Motors, reciprocating	Nov. 17, 1896
571,600	Merritt, F. W	Metallurgy, furnaces	Nov. 17, 1896
571,655	Girard and Street	Telegraphy, lightning-arresters	Nov. 17, 1896
571,669	Khotinsky, A	Telegraphy, circuits and systems	Nov. 17, 1896
571,695	Scott, F. P	Telephones, conductors, anti-inductive	Nov. 17, 1896
571,706	Thompson, S. P	do	Nov. 17, 1896
571,707	Thompson, S. P	Railways, systems, overhead, trolleys	Nov. 17, 1896
571,710	Tufts, S. F	Cut-outs, mechanical	Nov. 17, 1896
571,734	Ront, B. F	Indicators, station	Nov. 24, 1896
571,738	Alwies, H	Applications, general	Nov. 24, 1896
571,739	Badt, F. E	Conductors	Nov. 24, 1896
571,760	Guilleanne, T	Igniting devices, manual	Nov. 24, 1896
571,769	Krieger, G. F	Magneto-electric, armatures, drum	Nov. 24, 1896
571,780	Marzahn, W. F	Lights, arc, special features	Nov. 24, 1896
571,791	Quimby, H. R	Lights, arc, gravity-feed, clutch	Nov. 24, 1896
571,792	Quimby, H. R	Railway rolling-stock, motors	Nov. 24, 1896
571,824	Brill, J. A	do	Nov. 24, 1896
571,825	Brill and Brill	Railways, systems, conduit	Nov. 24, 1896
571,832	Hunter, R. M	Motors, alternating	Nov. 24, 1896
571,836	Lamme, B. G	Systems of distribution	Nov. 24, 1896
571,849	Sballenberger, O. B		

No.	NAME.	CLASS.	DATE.
571,863	Mershon, R. D.	Inductoriums, transformers, stationary	Nov. 24, 1896
571,888	Scott, G. H.	Conductors, connectors	Nov. 24, 1896
571,906	Scribner, C. E.	Telephones, systems, multiple switchboard, test	Nov. 24, 1896
571,907	Scribner, C. E.	Telephones, magnetic	Nov. 24, 1896
571,910	Scribner, C. E.	Telephones, systems, multiple switchboard, test	Nov. 24, 1896
571,927	Morton, J. T.	Cut-outs, mechanical, oscillating snap	Nov. 24, 1896
571,946	Eschwei, C.	Lights, arc, gravity-feed, clutch	Nov. 24, 1896
571,948	Hildburgh, L. W.	Telegraphy, duplex	Nov. 24, 1896
571,950	Miliken, G. F.	Telegraphy, fire, non-interfering	Nov. 24, 1896
571,951	Moskowitz, M.	Magneto-electric, bipolar	Nov. 24, 1896
571,952	Moskowitz, M.	Lighting, systems, secondary-battery	Nov. 24, 1896
571,954	Lean, G. R.	Lights, arc, gravity-feed, clutch	Nov. 24, 1896
571,975	Lean, G. R.	Lights, arc, special features	Nov. 24, 1896
571,976	Lean, G. R.	do	Nov. 24, 1896
571,977	Manger and Huebel	Conductors, connectors	Nov. 24, 1896
571,994	Donahue and Hausman	Railways, systems, overhead, trolleys	Nov. 24, 1896
571,997	Fall, A. W.	Games and toys, toys	Nov. 24, 1896
572,013	King, W. L.	Railways, sectional conductor, mechanical closers	Nov. 24, 1896
572,036	Therye, C.	Railways, locomotives	Nov. 24, 1896
572,057	Jennings, F. A.	Annunciators, step-by-step	Nov. 24, 1896
572,064	Rae, J.	Lights, arc, special features	Nov. 24, 1896
572,080	Wilshire and Massie	Indicators	Nov. 24, 1896
572,081	Young, J. A.	Telegraphy, circuit-closers, thermal	Nov. 24, 1896
11,576	Steinmetz, C. P.	Magneto-electric, multipolar	Nov. 24, 1896
572,108	Farrington, De W. C.	Telephones, details	Dec. 1, 1896
572,111	Griffiths, J. A.	Railway rolling-stock, locomotives	Dec. 1, 1896
572,124	McElroy, W.	Lights, incandescent, special features	Dec. 1, 1896
572,131	Schulte, J. A.	Clocks	Dec. 1, 1896
572,158	Connell, W.	Lighting, systems, display	Dec. 1, 1896
572,169	Hunter, R. M.	Railways, switches	Dec. 1, 1896
572,182	Ray, F. A.	Telephones	Dec. 1, 1896
572,188	Appleman, L. D.	Telephones, granular	Dec. 1, 1896
572,215	Patterson, W. R.	Conductors, connectors	Dec. 1, 1896
572,218	Scribner, C. E.	Telephones, systems, multiple switchboard, test	Dec. 1, 1896
572,219	Scribner, C. E.	Telephones, systems	Dec. 1, 1896
572,220	Scribner, E. E.	Bells	Dec. 1, 1896
572,221	Scribner, C. E.	Telephones, systems, central	Dec. 1, 1896
572,222	Scribner, C. E.	do	Dec. 1, 1896
572,223	Scribner and McBerty	Telephones, systems, multiple switchboard, test	Dec. 1, 1896
572,268	Morgan, B. B.	Railway signals, track instruments	Dec. 1, 1896
572,285	Willms, C.	Batteries, one-fluid, zinc, chloride	Dec. 1, 1896
572,312	Price, E. F.	Metallurgy, furnaces	Dec. 1, 1896
572,319	Sterling, C. B.	Cut-outs, mechanical, rotary	Dec. 1, 1896
572,341	Gibbs, J. W.	Medical and surgical electrode	Dec. 1, 1896
572,354	Buckner, J. B.	Lights, arc, special features	Dec. 1, 1896
572,377	Schatz, A. E.	Railways, telpher and towing	Dec. 1, 1896
572,378	Schwagerman, W.	Annunciators, drop	Dec. 1, 1896
572,380	Simonds, A. A.	Galvanometers	Dec. 1, 1896
572,421	Hawker, W.	Conductors, rheostats	Dec. 1, 1896
572,430	Magee, F. A.	Lights, incandescent, special features	Dec. 1, 1896
572,431	Magee, F. A.	do	Dec. 1, 1896
572,438	Moffatt, J. M.	Batteries, vessels	Dec. 1, 1896
572,467	Baker, B. E.	Stoves and furnaces, heaters	Dec. 1, 1896
572,472	Castner, H. Y.	Aqueous bath, anodes	Dec. 1, 1896
572,507	Hogan, J. J.	Conductors, rheostats	Dec. 1, 1896
572,510	Hutin and Leblanc	Motors, transmission of power, alternating	Dec. 1, 1896
572,512	Albert, H.	Aqueous bath, apparatus	Dec. 8, 1896
572,539	Goodyear, C.	Lights, arc, positive-feed, gear-clutch	Dec. 8, 1896
572,561	Oddyke, S. B.	Annunciators	Dec. 8, 1896
572,562	Oddyke, S. B.	do	Dec. 8, 1896
572,563	Oddyke, S. B.	do	Dec. 8, 1896
572,607	Knowles, G.	Telegraphy, fire, non-interfering	Dec. 8, 1896
572,609	Merritt and Joy	Telegraphy, printing	Dec. 8, 1896
572,627	Bliss, W. L.	Regulators	Dec. 8, 1896
572,636	Hewes, J. E.	Metallurgy, furnaces	Dec. 8, 1896
572,639	Kitsee, I.	Telegraphy, circuits and systems	Dec. 8, 1896
572,668	Walker and Wilson	Conductors, connectors	Dec. 8, 1896
572,685	Robinson, W.	Railway rolling-stock, locomotives	Dec. 8, 1896
572,686	Robinson, W.	do	Dec. 8, 1896
572,706	Hunter, R. M.	Railways, locomotives	Dec. 8, 1896
572,748	Fordyce, E. A.	Telephones, switchboards	Dec. 8, 1896
572,754	Holmes and Heath	Batteries, two-fluid, zinc, nitrates	Dec. 8, 1896

No.	NAME.	CLASS.	DATE.
572,756	Hunter and Higgins	Telephones, granular	Dec. 8, 1896
572,760	Kamm, L	Telegraphy, printing-wheel	Dec. 8, 1896
572,775	Schwarze, C. J	Telephones, granular	Dec. 8, 1896
572,777	Spencer and Toerring	Lights, arc, gravity-feed, clutch	Dec. 8, 1896
572,810	Hill, M. F	Telephones, systems, divided central	Dec. 8, 1896
572,805	Jackson, L. A	Lights, incandescent, special features	Dec. 8, 1896
572,840	Swan, A. L	Telephones, calls, step-by-step	Dec. 8, 1896
572,903	Leonard, H. W	Transmission of power, alternating	Dec. 8, 1896
572,923	Williams, E. C	Telegraphy, circuit-closers	Dec. 8, 1896
572,933	Seymour, H. A	Railways, systems, overhead, trolleys	Dec. 8, 1896
572,940	Orth, C. F. L	do	Dec. 8, 1896
572,944	Alexander and Gillham	Telegraphy, relays and sounders	Dec. 15, 1896
572,981	Goulvin, F. L	Telephones, magnetic	Dec. 15, 1896
573,009	Lamme, B. G	Magneto-electric, multipolar	Dec. 15, 1896
573,021	Marks, W. D	Meters	Dec. 15, 1896
573,023	Osborn, B. E	Railways, sectional conductor, magnetic closers	Dec. 15, 1896
573,042	Jenny, F. W. Shindler	Stoves and furnaces, heaters	Dec. 15, 1896
573,066	Westinghouse, G	Railways, sectional conductor, magnetic closers	Dec. 15, 1896
573,078	Duncan, T	Meters	Dec. 15, 1896
573,079	Duncan, T	do	Dec. 15, 1896
573,080	Duncan, T	do	Dec. 15, 1896
573,082	Erben, C	do	Dec. 15, 1896
573,088	Hawkins, F. H	Lighting, systems, display	Dec. 15, 1896
573,092	Locke, F. M	Insulators	Dec. 15, 1896
573,101	O'Neill, J. J	do	Dec. 15, 1896
573,105	Raymond, E. B	Magneto-electric	Dec. 15, 1896
573,107	Reist, H. G	Magneto-electric, multipolar	Dec. 15, 1896
573,117	Wales and Arnold	Telephones, systems, central	Dec. 15, 1896
573,130	Blackwell, F. O	Magneto-electric, multipolar	Dec. 15, 1896
573,134	Burgher, C	Telegraphy, circuit-closers, thermal	Dec. 15, 1896
573,142	Flanegin, F. A	Stoves and furnaces, heaters	Dec. 15, 1896
573,146	Hewlett, E. M	Railways, sectional conductor, magnetic closers	Dec. 15, 1896
573,161	Richter and Eschler	Lights, arc, special features	Dec. 15, 1896
573,162	Richter and Eschler	Lights, arc, gravity-feed, double-dog clutch	Dec. 15, 1896
573,169	Spragne, A	Railways, systems, conduit	Dec. 15, 1896
573,176	Borel, F	Conductors	Dec. 15, 1896
573,207	Coleman, J. P	Railway signals	Dec. 15, 1896
573,221	Herzog and Wheeler	Telegraphy, fire, variable signal, dial	Dec. 15, 1896
573,233	Netto, M	Electrolysis, fused bath	Dec. 15, 1896
573,247	Thomas, E. G	Measuring instruments, electrical attachments	Dec. 15, 1896
573,257	Börreson, B. H	Railways, systems, overhead, trolleys	Dec. 15, 1896
573,286	Piedfort, A	Telegraphy, automatic	Dec. 15, 1896
573,289	Pridham, M	Electrolysis, purifying liquids	Dec. 15, 1896
573,290	Pridham, M	do	Dec. 15, 1896
573,294	Ray, F. A	Telephones, granular	Dec. 15, 1896
573,302	Selkirk, A	Railways, sectional conductor, magnetic closers	Dec. 15, 1896
573,314	Mustain, S. A	Railways, switches	Dec. 15, 1896
573,350	Palfy, A	Indicators, station	Dec. 15, 1896
573,355	Pridham, M	Acneous bath, apparatus	Dec. 15, 1896
573,356	Pullen, L. W	Telephones, granular	Dec. 15, 1896
573,386	Brown, C. E	Conductors, connectors	Dec. 15, 1896
573,387	Brown and Brown	Lights, incandescent, special features	Dec. 15, 1896
573,391	Dobrick, A. C	Lights, arc, gravity-feed, pivot-dog clutch	Dec. 15, 1896
573,430	Crock, C. M	Clocks	Dec. 15, 1896
573,441	Christopher, W. O	Telephones, supports	Dec. 22, 1896
573,464	Hopkins, E. P	Lights, arc, positive-feed, gear-clutch	Dec. 22, 1896
573,493	Stephenson, A. E	Batteries, one-fluid, zinc	Dec. 22, 1896
573,496	Tilghman, B. C., Jr	Railway signals, sectional rail	Dec. 22, 1896
573,517	Lynch, V. T	Railways, systems, overhead, trolleys	Dec. 22, 1896
573,526	Von Nollendorf, E. H. A. H. R	Lights, arc, gravity-feed, gear-clutch	Dec. 22, 1896
573,531	Pratt, C. R	Motive-power, elevators	Dec. 22, 1896
573,535	Randall, C. F	Railways, systems, overhead, trolleys	Dec. 22, 1896
573,558	Voss, D. C	Conductors, rheostats	Dec. 22, 1896
573,575	Dean, W. W	Telephones, systems, central	Dec. 22, 1896
573,576	Dean, W. W	do	Dec. 22, 1896
573,581	Dyer, I. T	Motors, reciprocating	Dec. 22, 1896
573,591	Herzog and Wheeler	Telegraphy, printing	Dec. 22, 1896
573,592	Herzog and Wheeler	Annuclators	Dec. 22, 1896
573,601	Jones, F. W	Telephones, systems, multiple switchboard, divided central	Dec. 22, 1896
573,612	McEvoy, C. H	Conductors, connectors	Dec. 22, 1896
573,617	Queisser, P. F. H	Lights, arc, gravity-feed, gear-clutch	Dec. 22, 1896

No.	NAME.	CLASS.	DATE.
573,645	Cooley, W. H.	Railways, sectional conductor, magnetic closers.	Dec. 22, 1896
573,647	Green, C. M.	Systems of distribution	Dec. 22, 1896
573,670	Lagrelle, A. D.	Stoves and furnaces, heaters	Dec. 22, 1896
573,716	Singer and Singer	Telegraphy, railway-car	Dec. 22, 1896
573,723	Thomson, H. C.	Telegraphy, circuit-closers	Dec. 22, 1896
573,750	Adams, L.	Conductors, lightning-rods	Dec. 22, 1896
573,767	Denayrouze, L.	Regulators	Dec. 22, 1896
573,807	Boardman and Boardman	Cut-outs, mechanical	Dec. 22, 1896
573,809	Clark, J. H.	Motive-power, elevators	Dec. 22, 1896
573,819	Leffler, P. W.	Railways, motor part along the track	Dec. 22, 1896
573,820	Leffler, P. W.	do	Dec. 22, 1896
573,821	Leffler, P. W.	do	Dec. 22, 1896
573,822	Leffler, P. W.	do	Dec. 22, 1896
573,823	Leffler, P. W.	do	Dec. 22, 1896
573,830	Mosher, J. A.	Lights, arc, gravity-feed, gear-clutch	Dec. 22, 1896
573,859	Callender, R.	Telephones, systems, automatic	Dec. 29, 1896
573,874	Harris, S.	Motors, hand-operating devices	Dec. 29, 1896
573,884	Keith, A. E.	Telephones, switches	Dec. 29, 1896
573,903	McGahy, J. A.	Annunciators, drop	Dec. 29, 1896
573,905	McLoughlin, J. F.	Railway rolling-stock, locomotives	Dec. 29, 1896
573,911	Page, L. H.	Lights, incandescent, special features	Dec. 29, 1896
573,924	Rogers, A. C.	Telegraphy, fire	Dec. 29, 1896
573,929	Swan, A.	Lights, sockets and keys	Dec. 29, 1896
573,932	Thorp, A. H.	Railway signals, sectional rail	Dec. 29, 1896
573,944	West, A. H.	Telegraphy, circuit-closers, thermal	Dec. 29, 1896
573,948	Wollin, J. C.	Alarms	Dec. 29, 1896
573,962	Colgate, A. E.	Lights, arc, positive-feed, step gear-clutch	Dec. 29, 1896
573,966	Duncan, R.	Conductors, insulators	Dec. 29, 1896
573,979	Imhoff, L.	Motors, hand-operating devices	Dec. 29, 1896
573,992	McBerty, F. R.	Telephones, systems, central	Dec. 29, 1896
574,005	Scribner, C. E.	do	Dec. 29, 1896
574,006	Scribner, C. E.	Telephones, systems, multiple switchboard, test.	Dec. 29, 1896
574,025	Edgecomb, H. A.	Motive-power, dental instruments	Dec. 29, 1896
574,035	Lamme, B. G.	Regulators, alternating, compounding	Dec. 29, 1896
574,038	Marks, R. J.	Aqueous bath, apparatus	Dec. 29, 1896
574,045	Scribner, C. E.	Lights, arc, positive-feed, clutch	Dec. 29, 1896
574,046	Scribner, C. E.	Telephones, systems	Dec. 29, 1896
574,065	Kammer, J. von de	Lights, incandescent	Dec. 29, 1896
574,101	Martin, C. B.	Railways, conductor supports and insulators	Dec. 29, 1896
574,117	Seymour, H. A.	Lights, arc, gravity-feed, ring-clutch	Dec. 29, 1896
574,118	Seymour, H. A.	do	Dec. 29, 1896
574,119	Seymour, H. A.	Lights, arc, special features	Dec. 29, 1896
574,120	Sperry, E. A.	Railway-brakes	Dec. 29, 1896
574,123	Thomson, E.	Lights, arc, gravity-feed, double dog-clutch	Dec. 29, 1896
574,171	Roche, J. A.	Railways, sectional conductor, magnetic closers.	Dec. 29, 1896
574,215	Partington, C.	Railway signals	Dec. 29, 1896
574,217	Pusey, T. M.	Regulators, resistance	Dec. 29, 1896
574,221	Scribner, C. E.	Telephones, systems, multiple switchboard, test.	Dec. 29, 1896
574,222	Scribner, C. E.	Telephones, systems, central	Dec. 29, 1896
574,224	Scribner, C. E.	Telephones, switchboards	Dec. 29, 1896
574,225	Scribner, C. E.	Telephones, systems, central	Dec. 29, 1896
574,231	Werner, E. E.	Conductors, rheostats	Dec. 29, 1896
574,245	Houts and Nilson	Telephones, calls	Dec. 29, 1896
574,255	McBerty, F. R.	Telephones, systems, central	Dec. 29, 1896
574,275	Scribner, C. E.	Systems of distribution	Dec. 29, 1896
574,279	Scribner, C. E.	Telephones, systems, divided central	Dec. 29, 1896
574,280	Scribner and McBerty	Telephones, systems, central	Dec. 29, 1896
574,281	Scribner and McBerty	Telephones, switchboards	Dec. 29, 1896
574,301	Bryant, W. C.	Lights, incandescent	Dec. 29, 1896
574,320	Giesler, A.	Regulators, engine-control	Dec. 29, 1896
574,322	Grindle, G. A.	Batteries, secondary	Dec. 29, 1896
574,327	Hunter and Higgins	Annunciators, step-by-step	Dec. 29, 1896
574,333	Keilholtz, P. O.	Lighting, systems, test	Dec. 29, 1896
574,341	Pridham, M.	Electrolysis, synthesis, ozone	Dec. 29, 1896
574,343	Reid, E. S.	Conductors	Dec. 29, 1896
574,345	Stanley and Reynolds	Railways, systems, overhead, trolleys	Dec. 29, 1896
574,370	Atterbury, T. B.	Lights, incandescent, stopper	Jan. 5, 1897
574,377	Bentley, E. M.	Railways, systems, overhead, trolleys	Jan. 5, 1897
574,382	Butler, W. A.	do	Jan. 5, 1897
574,417	Harris and Holland	Batteries, secondary	Jan. 5, 1897
574,430	Johnston, W. H.	Conductors, house-wiring	Jan. 5, 1897
574,527	Duryea and Thompson	Railways, systems, overhead, trolleys	Jan. 5, 1897
574,532	Gee, H. L.	Railway rolling-stock, motors	Jan. 5, 1897

No.	NAME.	CLASS.	DATE.
574,536	Hadaway, W. S	Stoves and furnaces, heaters	Jan. 5, 1897
574,537	Hadaway, W. S	do	Jan. 5, 1897
574,565	Packard, G. T	Meters	Jau. 5, 1897
574,579	Scribner and McBerty	Telephones, systems, central	Jan. 5, 1897
574,632	Schlesinger, W. M	Railways, locomotives	Jan. 5, 1897
574,642	Swarts, H. J	Telephones, systems, central	Jan. 5, 1897
574,654	Barnum, R. S	Telephones, systems, magnetic	Jan. 5, 1897
574,669	Crook, C. M	Horology, clocks	Jan. 5, 1897
574,707	Bowman, L. G	Telephones, systems, automatic	Jan. 5, 1897
574,739	Kelly, G. F	Galvanometers	Jan. 5, 1897
574,761	Rawson, S. B	Telephones, granular	Jan. 5, 1897
574,819	Pepper, W. L	Railways, systems, overhead, trolleys	Jan. 5, 1897
574,826	Rooney, J. J	Batteries, secondary	Jan. 5, 1897
574,828	Siuock, B. D. B	Insulators	Jan. 5, 1897
274,843	Winslow, W. H	Aqueous bath, cathodes	Jau. 5, 1897
574,856	Trott, G. V	Alarms, burglar	Jan. 5, 1897
574,885	Davis, H. P	Motors, hand-operating devices	Jan. 12, 1897
574,889	Dawson, J. W	Igniting devices, manual	Jan. 12, 1897
574,896	Fieske and Smith	Motors, hand-operating devices	Jau. 12, 1897
574,901	Gould, C. C	Telephones, multiple electrode	Jan. 12, 1897
574,903	Hessberger, J	Meters	Jau. 12, 1897
574,905	Hood, R. O	Lights, arc, gravity-feed, gear-clutch	Jau. 12, 1897
574,907	Kaysel, E. A. C	Lights, incandescent, special features	Jan. 12, 1897
574,914	Lamue, B. G	Regulators, compound-winding	Jan. 12, 1897
574,922	MacKenzie, G. W	Clocks	Jan. 12, 1897
574,926	Menchen, J	Cut-outs, thermal	Jan. 12, 1897
574,953	Skeen, R	Railway signals, sectional rail	Jan. 12, 1897
574,954	Skeen, R	do	Jan. 12, 1897
574,978	Wurts, A	Telegraphy, lightning-arresters	Jan. 12, 1897
574,991	Hoffman, B	Telegraphy, printing, multiple-wheel	Jan. 12, 1897
575,002	Lodyguinne, A de	Lights, filaments and carbons	Jan. 12, 1897
575,025	Chapman, W. M	Telegraphy, fire, repeaters	Jau. 12, 1897
575,047	Armen, A. H	Cut-outs, mechanical	Jan. 12, 1897
575,053	Dion, L	Railways, sectional conductor, magnetic closers	Jan. 12, 1897
575,054	Dion, L	do	Jan. 12, 1897
575,059	Ewbank, H. B	Bells	Jan. 12, 1897
575,065	Henquin, N	Railway signals	Jan. 12, 1897
575,072	Simpkins, E. J	Music, electric actions	Jan. 12, 1897
575,080	Troutwine, W. S	Railways, systems, overhead, trolleys	Jan. 12, 1897
575,090	Adam, C. F	Insulators	Jau. 12, 1897
575,093	Babcock, J. F	Alarms	Jau. 12, 1897
575,099	Bishop, J. E	Railways, systems, overhead, trolleys	Jan. 12, 1897
575,115	Hunt, A. E	Metallurgy, furnaces	Jan. 12, 1897
575,116	Hutin and Leblaue	Magneto-electric, multipolar	Jan. 12, 1897
575,131	Scribner, C. E	Telephones, systems, central	Jan. 12, 1897
575,156	Holdsworth and Dodsworth	Bells	Jan. 12, 1897
575,170	Richards, H. T	Conductors	Jan. 12, 1897
575,186	Weekel, J. H	Telephones, systems, central	Jan. 12, 1897
575,210	Campbell, G. L	Magneto-electric, multipolar	Jan. 12, 1897
575,235	Hawkes, W	Conductors, rheostats	Jan. 12, 1897
575,322	Benjamin, R. B	Lights, sockets and keys	Jan. 19, 1897
575,332	Crouin, M	Lights, incandescent, special features	Jan. 19, 1897
575,341	Finkbeiner, E	Lights, arc, gravity-feed, double dog-clutch	Jan. 19, 1897
575,346	Grunow, W. Jr	Railways, collapsible-tube conductor	Jan. 19, 1897
575,354	Jens, W	Conductors, connectors	Jan. 19, 1897
575,366	Morgan, W. H	Motors, hand-operating devices	Jan. 19, 1897
575,388	Bowen, M. K	Conductors, conductors	Jan. 19, 1897
575,394	Field, S. D	Telephones, magnetic	Jan. 19, 1897
575,419	Delaney, P. B	Telegraphy, automatic	Jan. 19, 1897
575,449	Werner, A. L	Batteries, vessels	Jau. 19, 1897
575,454	Bentley, E. M	Motors, hand-operating devices	Jan. 19, 1897
575,479	Hunter, R. M	Motive-power, elevators	Jau. 19, 1897
575,488	Milligan, T. P	Railways, telpher and towing	Jan. 19, 1897
575,490	McLanglin, J. F	Railways, locomotives	Jan. 19, 1897
575,523	Mailloux, C. O	Telegraphy, circuit-closers	Jan. 19, 1897
575,573	Pieper and Pieper	Motors, hand-operating devices	Jau. 19, 1897
575,601	French, W. F	Railway signals, track instruments	Jan. 19, 1897
575,615	Osyor, D. N	Railways, systems, overhead	Jan. 19, 1897
575,641	Gerard and Lawreuee	Conductors	Jan. 19, 1897
575,645	Hermite, E	Electrolysis, purifying liquids	Jan. 19, 1897
575,653	Lee, Westcott, and Robes	Telegraphy, condensers	Jan. 19, 1897
575,658	Lodyguinne, A. de	Lights, filaments and carbons	Jan. 19, 1897
575,679	Hussey, C. A	Electromagnets	Jan. 19, 1897
575,699	Chapin and Holloran	Motors, reciprocating	Jan. 26, 1897
575,723	Mather, A. C	Railway rolling-stock, motors	Jau. 26, 1897
575,733	Ramsey, W. McC	Railway signals	Jan. 26, 1897

No.	NAME.	CLASS.	DATE.
575,767	Frölich, O	Galvanometers	Jan. 26, 1897
575,772	Thomson, E	Lights, incandescent	Jan. 26, 1897
575,777	Fish, W. C	Meters	Jan. 26, 1897
575,782	Potter, W. B	Railways, conductor supports and insulators	Jan. 26, 1897
575,785	Rice, E. W., Jr	Railways, sectional conductor, magnetic closers	Jan. 26, 1897
575,788	Willson, T. L	Electrolysis, fused bath	Jan. 26, 1897
575,805	Freeman and Slater	Railway signals, sectional rail	Jan. 26, 1897
575,826	Deuther, J. A	MetalInrgy, furnaces	Jan. 26, 1897
575,829	Joyce, J	do	Jau. 26, 1897
575,830	Kleber, O. L	Telegraphy, printing, wheel	Jan. 26, 1897
575,869	Barnum, R. T	Telephones, granular	Jan. 26, 1897
575,887	Hardegen, P	do	Jan. 26, 1897
575,896	Kotyra, M	do	Jan. 26, 1897
575,908	Schreuder, J. G	Railway signals	Jan. 26, 1897
575,918	Wheeler, S. L. S	Magneto-electric, brushes and holders	Jan. 26, 1897
575,952	Hoover, F	Conductors, insulators	Jan. 26, 1897
576,040	Dean, W. W	Cut-outs, thermal	Jan. 26, 1897
576,053	Gray, L. A	Medical and surgical, body-wear	Jan. 26, 1897
576,052	Alexander, J. P	Railways, sectional conductor, magnetic closers	Feb. 2, 1897
576,095	Doe, W. S	Batteries, two-fluid, zinc	Feb. 2, 1897
576,103	Fielding, P. H	Lights, arc, special features	Feb. 2, 1897
576,129	Julig, L	Lighting, systems, display	Feb. 2, 1897
576,145	Nash, L. H	Regulators, compound-winding	Feb. 2, 1897
576,163	Schneider, F. W	Batteries, secondary	Feb. 2, 1897
576,164	Schneider, F. W	do	Feb. 2, 1897
576,166	Shoecraft, J	Railway signals, block	Feb. 2, 1897
576,177	Willard, T. A	Batteries, secondary	Feb. 2, 1897
576,178	Willard, T. A	do	Feb. 2, 1897
576,201	Leece and Bullock	Indicators, station	Feb. 2, 1897
576,202	Leonard, H. W	Conductors, rheostats	Feb. 2, 1897
576,240	Tucker and Hinckley	Meters	Feb. 2, 1897
576,243	Vreede, C	Telegraphy, circuits and systems	Feb. 2, 1897
576,266	Green, H	Lighting, systems, display	Feb. 2, 1897
576,267	Green, H	do	Feb. 2, 1897
576,268	Grunow, W., Jr	Railways, sectional conductor, mechanical closers	Feb. 2, 1897
576,332	Valley, G	Motors, hand-operating devices	Feb. 2, 1897
576,333	Valley, G	do	Feb. 2, 1897
576,342	Davis, G. H	Music, electric actions	Feb. 2, 1897
576,369	Kritzer, C. C	Cut-outs, electromagnetic	Feb. 2, 1897
576,372	Miller, J. Z	Magneto-electric, hand-machines	Feb. 2, 1897
576,375	Paca, W. S	Connectors	Feb. 2, 1897
576,383	Sterling, C. B	Lighting, systems, safety	Feb. 2, 1897
576,384	Thomas and Gignilliat	Motors, hand-operating devices	Feb. 2, 1897
576,392	Billings, H. E	Railways, conductor supports and insulators	Feb. 2, 1897
576,394	Campbell, G. L	Railways, systems, overhead, trolleys	Feb. 2, 1897
576,405	Langford, C. A	do	Feb. 2, 1897
576,469	Paca, W. S	Connectors	Feb. 2, 1897
576,472	Robes, E. C	Telphones, calls	Feb. 2, 1897
576,475	Shesler, D. A	Lights, arc, special features	Feb. 2, 1897
576,493	Bigger, J. S	Fences, gates	Feb. 2, 1897
11,158	Harris, J	Meters	Feb. 2, 1897
576,551	Clark and Clark	Telephones, granular	Feb. 9, 1897
576,621	Schalscha, M	Regulators, resistance	Feb. 9, 1897
576,622	Schalscha, M	Railways, telpher and towing	Feb. 9, 1897
576,710	Wirt, H. C	Cut-outs, thermal, plug	Feb. 9, 1897
576,721	Caffrey, W. G	Railways, systems, overhead, trolleys	Feb. 9, 1897
576,732	Kelly, J. F	Motors, hand-operating devices	Feb. 9, 1897
576,766	Robertson, W. F	Stoves and furnaces, heaters	Feb. 9, 1897
576,802	Baurlein, H	Lights, arc, gravity-feed, gear-clutch	Feb. 9, 1897
576,810	DeRycke, J. J. J	Conductors, house-wiring	Feb. 9, 1897
576,813	Gilliland, J. F	Telephones, granular	Feb. 9, 1897
576,854	Keen and Roberts	Indicators, station	Feb. 9, 1897
576,933	Ageron, J. A	Lighting, systems, car	Feb. 9, 1897
576,936	Badt, F. B	Batteries, vessels	Feb. 9, 1897
577,033	Holland, C	Lighting, systems, display	Feb. 16, 1897
577,037	Jenney, C. D	Motors, hand-operating devices	Feb. 16, 1897
577,070	Sandham, H	Aqueous bath, cathodes	Feb. 16, 1897
577,071	Schmid, A	Railway rolling-stock, locomotives	Feb. 16, 1897
577,081	Sperry, E. A	Motors, hand-operating devices	Feb. 16, 1897
577,101	Dean, W. W	Telephones, systems, central	Feb. 16, 1897
577,102	Dean, W. W	Telephones, calls	Feb. 16, 1897
577,122	Feuerstein, P. G	Annunciators, time	Feb. 16, 1897
577,130	Geisenhöner, H	Magneto-electric, armatures, ring	Feb. 16, 1897
577,134	Harrison, J. H	Electrolysis, purifying liquids, water	Feb. 16, 1897

NO	NAME.	CLASS.	DATE.
577,141	Mackintosh, F -----	Magneto-electric, connecting devices -----	Feb. 16, 1897
577,148	Reist, H. G -----	Magneto-electric, armatures, drum -----	Feb. 16, 1897
577,159	Dolley, Hawkins, and Lightfoot -----	Lights, incandescent -----	Feb. 16, 1897
577,186	Collins, G. G -----	Aqueous bath, aluminum -----	Feb. 16, 1897
577,214	Stone, J. S -----	Telegraphy, circuits and systems -----	Feb. 16, 1897
577,231	Bradshaw, W. L -----	Telephones, systems, central -----	Feb. 16, 1897
577,233	Burger, N. H -----	Medical and surgical, chairs and couches -----	Feb. 16, 1897
577,270	Reagan, H. C., Jr -----	Batteries, thermal -----	Feb. 16, 1897
577,279	Armstrong, J. T -----	Igniting devices, manual -----	Feb. 16, 1897
577,282	Burnet, E -----	Batteries, vessels -----	Feb. 16, 1897
577,284	Camp, H. B -----	Conductors, house-wiring -----	Feb. 16, 1897
577,317	Patten, F. J -----	Metallurgy, furnaces -----	Feb. 16, 1897
577,370	Patten, F. J -----	do -----	Feb. 16, 1897
577,371	Patten, F. J -----	Telegraphy, lightning-arresters -----	Feb. 16, 1897
577,373	Amstutz, N. S -----	Telegraphy, automatic -----	Feb. 16, 1897
577,427	Gutmann, L -----	Motors, alternating -----	Feb. 23, 1897
577,447	Packard, G. T -----	Cut-outs, electromagnetic -----	Feb. 23, 1897
577,450	Redon, C. F. de -----	Railways, sectional conductor, magnetic closers.	Feh. 23, 1897
577,480	Guttmann, L -----	Inductoiums, transformers, stationary -----	Feb. 23, 1897
577,481	Huhhard, M. G., Jr -----	Railway rolling-stock, motor -----	Feb. 23, 1897
577,526	Chapsal, F -----	Railway-brakes, fluid-pressure -----	Feb. 23, 1897
577,532	Miranda, A. R -----	Annunciators -----	Feb. 23, 1897
577,534	Muirhead, A -----	Telegraphy, automatic -----	Feb. 23, 1897
577,540	Taylor, H. A -----	do -----	Feb. 23, 1897
577,635	Alexander and Gillham -----	Railway signals, sectional rail -----	Feh. 23, 1897
577,636	Andreoli, E -----	Synthesis, ozones -----	Feb. 23, 1897
577,670	Tesla, N -----	Transmission of power, direct -----	Feb. 23, 1897
577,671	Tesla, N -----	Inductoiums, induction-coils -----	Feb. 23, 1897
577,678	Brandt, P -----	Galvanometers -----	Feb. 23, 1897
577,704	Young, T. W -----	Railways, conductor supports and insulators -----	Feb. 23, 1897
577,730	Eberhardt, L. A -----	Games and toys, toys -----	Feh. 23, 1897
577,741	Gale, H. N -----	Railways, systems, overhead, trolleys -----	Feb. 23, 1897
577,742	Gutmann, L -----	Inductoiums, transformers, stationary -----	Feb. 23, 1897
577,760	Lane, G. M -----	Lights, arc, gravity-feed, gear-clutch -----	Feb. 23, 1897
577,771	Morris, H. G -----	Batteries, secondary -----	Feb. 23, 1897
577,802	Westman, G. M -----	Metallurgy, furnaces -----	Feb. 23, 1897
577,816	Arnold, H. V -----	Lighting, systems, display -----	Feb. 23, 1897
577,822	McElroy, J. F -----	Cut-outs, thermal -----	Feb. 23, 1897
577,853	Halsey, L. M -----	Railways, systems, overhead, trolleys -----	Mar. 2, 1897
577,864	Knowles, E. R -----	Lights, arc, gravity-feed, gear-clutch -----	Mar. 2, 1897
577,872	Moskowitz, M -----	Lighting, systems, car -----	Mar. 2, 1897
577,885	Skinner, C -----	Railways, sectional conductor, mechanical closeis.	Mar. 2, 1897
577,912	Broius, S. G -----	Railways, systems, conduit -----	Mar. 2, 1897
577,920	Heckard and Ogden -----	Telephones, calls -----	Mar. 2, 1897
577,921	Holahan, T -----	Railways, systems, overhead, trolleys -----	Mar. 2, 1897
577,949	Gordon and Weir -----	Railway signals -----	Mar. 2, 1897
577,950	Gorn, H. A -----	Motors, hand-operating devices -----	Mar. 2, 1897
578,004	Czarnickow, A -----	Igniting devices, manual -----	Mar. 2, 1897
578,006	Ericsson, L. M -----	Magneto-electric, hand-machines -----	Mar. 2, 1897
578,016	Kester and Atherton -----	Magneto-electric, brushes and holders -----	Mar. 2, 1897
578,069	Stock, H. A -----	Motors, alternating -----	Mar. 2, 1897
578,070	Woolf, A. E -----	Aqueous bath, anodes -----	Mar. 2, 1897
578,077	Burgher, C -----	Telegraphy, fire, automatic -----	Mar. 2, 1897
578,107	Kohn, M. M -----	Lights, incandescent, special features -----	Mar. 2, 1897
578,113	Noyes, B. J -----	Telegraphy, Morse registers -----	Mar. 2, 1897
578,114	Noyes, B. J -----	Telegraphy, fire, variable signal, dial -----	Mar. 2, 1897
578,115	Noyes, B. J -----	Telegraphy, Morse registers -----	Mar. 2, 1897
578,121	Strong, J. R -----	Telephones, systems, central -----	Mar. 2, 1897
578,126	Weiny, R. H -----	Telegraphy, automatic -----	Mar. 2, 1897
578,131	Anderson, H. A. C -----	Batteries, one-fluid, zinc -----	Mar. 2, 1897
578,139	Doty and MacKnight -----	Railways, switches, automatic -----	Mar. 2, 1897
578,170	Turner, C. P -----	Tempering and annealing, applications of electricity.	Mar. 2, 1897
578,171	Turner, C. P -----	Aqueous bath, ores -----	Mar. 2, 1897
578,182	Adam, G. F. C -----	Motors, hand-operating devices -----	Mar. 2, 1897
578,233	Guendel, A -----	Lights, arc, gravity-feed, gear-clutch -----	Mar. 2, 1897
578,236	Hall, W. P -----	Railway signals -----	Mar. 2, 1897
578,275	Stone, J. S -----	Telegraphy, circuits and systems -----	Mar. 2, 1897
578,280	Turner, C. P -----	Magneto-electric, bipolar -----	Mar. 2, 1897
578,298	Shea, C. A -----	Railway-brakes, fluid-pressure -----	Mar. 2, 1897
578,304	Jones, B. J -----	Conductors, connectors -----	Mar. 2, 1897
578,333	Hilgeman, H. B -----	Conductors, conduits -----	Mar. 9, 1897
578,345	Maxim, H. F -----	Telegraphy, circuit-closers -----	Mar. 9, 1897
578,380	Williams and Abbott -----	Telephones, calls, strength and polarity -----	Mar. 9, 1897
578,386	Beach, C. E -----	Telegraphy, Morse register -----	Mar. 9, 1897

No.	NAME.	CLASS.	DATE.
578,394	Dunn and Reagan	Lights, incandescent, special features	Mar. 9, 1897
578,402	Heckard and Ogden	Railway signals	Mar. 9, 1897
578,420	Pike, F. N	Igniting devices, manual	Mar. 9, 1897
578,430	Thomson E	Meters	Mar. 9, 1897
578,442	Bogart, S. S	Railway signals	Mar. 9, 1897
578,457	Kellner, C	Aqueous bath, chemicals	Mar. 9, 1897
578,464	Parham, E. C	Motors, hand-operating devices	Mar. 9, 1897
578,471	Sherman, W. N	Medical and surgical, exercising apparatus	Mar. 9, 1897
578,520	Lombard, N	Telephones, granular	Mar. 9, 1897
578,539	Blamey, E	Railways, systems, overhead, trolleys	Mar. 9, 1897
578,542	Brooks, H. M	do	Mar. 9, 1897
578,611	Rively, J. D	Medical and surgical, electrodes	Mar. 9, 1897
578,633	Gooch, F. A	Electrolysis, fused bath	Mar. 9, 1897
578,643	Kinch, D. B	Cut-outs, mechanical	Mar. 9, 1897
578,655	Paiste, H. T	Lighting, ceiling-block	Mar. 9, 1897
578,670	Weigel, J	Telephones, magnetic	Mar. 9, 1897
578,673	Boetcher, A	Electromagnets	Mar. 9, 1897
578,685	Whitney, E. R	Metallurgy, furnaces	Mar. 9, 1897
578,695	Gibbs, J. S	Cnt-outs, mechanical	Mar. 9, 1897
578,707	Bacon, F. R	Motors, hand-operating devices	Mar. 16, 1897
578,710	Barrett, C. T	Batteries, secondary	Mar. 16, 1897
578,716	Buchtel, J	Alarms	Mar. 16, 1897
578,750	Kelly, H. P	Cut-outs, electromagnetic	Mar. 16, 1897
578,760	McElroy, J. F	Railway rolling-stock, locomotives	Mar. 16, 1897
578,771	Rawson, S. B	Telephones, switches	Mar. 16, 1897
578,823	Kitsee, I	Lighting, systems, battery	Mar. 16, 1897
578,825	Luscomb and Crane	Railways, conductor supports and insulators	Mar. 16, 1897
578,829	McTighe and Childs	Conductoos, connectors	Mar. 16, 1897
578,840	Selden, C	Railway signals, block	Mar. 16, 1897
578,841	Skiwan, E	Lighting, mantles	Mar. 16, 1897
578,853	Eierman, H	Railway signals, sectional rail	Mar. 16, 1897
578,867	Farley, H. N	Telegraphy, circuits and systems	Mar. 16, 1897
578,870	Hammacher, S	Batteries, secondary	Mar. 16, 1897
578,887	Linde, R	do	Mar. 16, 1897
578,893	McDermott, M. P	Alarms, burglar	Mar. 16, 1897
578,925	Hastings and Flaherty	Music, organ, actions, electropneumatic	Mar. 16, 1897
578,934	Lery, J. B de	Lighting, mantles	Mar. 16, 1897
578,953	Thum, F. A	Aqueous bath, apparatus	Mar. 16, 1897
578,954	Van Emon, B. C	Motors, hand-operating devices	Mar. 16, 1897
578,976	Crook, C. M	Clocks	Mar. 16, 1897
578,981	Freeman, W. K	Telegraphy, lighting-arresters	Mar. 16, 1897
578,992	Holman, S. W	Telephones, systems	Mar. 16, 1897
578,997	Leiser, C. W	Telegraphy, repeater	Mar. 16, 1897
579,001	Martin, S. J	Batteries, secondary	Mar. 16, 1897
579,003	Moore, W. J	Telephones, granular	Mar. 16, 1897
579,012	Scheeffier, G. A	Magneto-electric, multipolar	Mar. 16, 1897
579,028	Woods, C. E	Motors, hand-operating devices	Mar. 16, 1897
579,032	Adams, T. E	Lights, arc, gravity-feed, clutch	Mar. 16, 1897
579,036	Bossong, F. E	Telephones, switchboards	Mar. 16, 1897
579,051	Fiske, J. P. B	Motors	Mar. 16, 1897
579,059	Hicks, T. H	Regulators, reducing sparks	Mar. 16, 1897
579,062	Horry, W. S	Motors	Mar. 16, 1897
579,063	Hunter, R. M	Regulators, counter electromotive force	Mar. 16, 1897
579,075	Owen, Williams, and Donaldson	Indicators	Mar. 16, 1897
579,079	Raps, A	Meters	Mar. 16, 1897
579,124	Bossard, J	Aqueous bath, depolarizing and furnishing	Mar. 23, 1897
579,158	Mengis, M. C	Railways, telpher and towing	Mar. 23, 1897
579,161	Mosher, J. A	Lights, arc, gravity-feed, gear-clutch	Mar. 23, 1897
579,169	Newsom, J. N	Telephones, calls, step-by-step	Mar. 23, 1897
579,170	Newsom, J. N	Railway signals	Mar. 23, 1897
579,195	Turner, G. E	Railway rolling-stock, motors	Mar. 23, 1897
579,211	Wright, W	Mills, amalgamators	Mar. 23, 1897
579,213	Young, H. R	Conductors, house-wiring	Mar. 23, 1897
579,227	Fowler, F. L	Lights, incandescent	Mar. 23, 1897
579,236	Kellner, C	Aqueous bath, bleaching	Mar. 23, 1897
579,239	Meissner, W. O	Telephones, systems, central	Mar. 23, 1897
579,250	Baker, E	Aqueous bath, chemicals	Mar. 23, 1897
579,267	Harthan, C. E	Lights, arc, special features	Mar. 23, 1897
579,268	Harthan, C. E	Cut-outs, mechanical, oscillating snap	Mar. 23, 1897
579,273	Lane, F. A	Batteries, anodes	Mar. 23, 1897
579,283	Steinmetz, C. P	Regulators, alternating, compounding	Mar. 23, 1897
579,299	Keelyn and Miller	Telephones, systems, divided central	Mar. 23, 1897
579,300	Lachmann, E	Railways, systems, condnit	Mar. 23, 1897
579,317	Constain and Hansen	Electrolysis, aqueous bath	Mar. 23, 1897
579,324	Hadaway, W. S	Metallurgy, furnaces	Mar. 23, 1897
579,344	Houston and Kennelly	Galvanometers	Mar. 23, 1897
579,361	Epstein, L	Batteries, secondary	Mar. 23, 1897

No.	NAME.	CLASS.	DATE.
579,366	Robertson, F. C	Cut-outs, electromagnetic	Mar. 23, 1897
579,380	Braunth, J. F. S	Railways, systems, overhead, trolleys	Mar. 23, 1897
579,393	Hunt, L	Telegraphy, circuit-closers, thermal	Mar. 23, 1897
579,395	Jeannin, F. H	Inductoriums, transformers, stationary	Mar. 23, 1897
579,431	Harrington, W. E	Cut-outs, electromagnets	Mar. 23, 1897
579,473	Davidson and Armstrong	Annunciators, drop system	Mar. 23, 1897
579,482	Hobbs, J. D	Telegraphy, fire	Mar. 23, 1897
579,506	Westinghouse, G	Railways, systems, overhead, trolleys	Mar. 23, 1897
579,511	Briggar, J. S	Motors, reciprocating	Mar. 23, 1897
579,525	Westinghouse, G	Railways, sectional conductor, magnetic closers	Mar. 23, 1897
579,526	Westinghouse, G	Railway rolling-stock, starters	Mar. 23, 1897
579,527	Westinghouse, G	Railways, locomotives	Mar. 23, 1897
579,556	Badt, F. B	Lighting, systems, safety	Mar. 30, 1897
579,576	Grunow, W., Jr.	Railways, sectional conductor, mechanical closers	Mar. 30, 1897
579,582	Hookman, G	Meters	Mar. 30, 1897
579,597	Moxham, A. J	Metallurgy, furnaces	Mar. 30, 1897
579,633	Buckingham and Gardam	Telegraphy, automatic	Mar. 30, 1897
579,676	Graham, F. A	Telegraphy, printing, wheel	Mar. 30, 1897
579,699	Davis, A. W. S	Telephones, granular	Mar. 30, 1897
579,707	Essieck, S. V	Batteries, one-fluid, zinc, sulphates	Mar. 30, 1897
579,725	Keithly, W. C	Railways, conductor supports and insulators	Mar. 30, 1897
579,728	Walker, W. H	Railways, systems, overhead	Mar. 30, 1897
579,759	Mansfield, F	Railways, sectional conductor, mechanical closers	Mar. 30, 1897
579,790	Cohn and Martin	Telephones, details	Mar. 30, 1897
579,808	Russell, R. M	Lights, incandescent, special features	Mar. 30, 1897
579,864	Deake and Moore	Conductors, conduit	Mar. 30, 1897
579,872	Haycraft, J. H	Aqueous bath, ores	Mar. 30, 1897
579,894	Poole, J. W	Cut-outs, mechanical	Mar. 30, 1897
579,916	Brewer, H. J	Batteries, vessels	Mar. 30, 1897
579,929	McBrien, F	Railway signals, sectional rail	Mar. 30, 1897
579,933	Schreuder and Coleman	do	Mar. 30, 1897
579,975	Gillette, W	Magneto-electric, hand-machines	Apr. 6, 1897
579,988	Keillner, C	Electrolysis, fused bath	Apr. 6, 1897
580,010	Shonnard, H. W	Musie, electric actions	Apr. 6, 1897
580,011	Short, S. H	Magneto-electric, armatures, ring	Apr. 6, 1897
580,035	Cahill, T	Music, electric actions	Apr. 6, 1897
580,057	Robinson, W	Railways, sectional conductor, magnetic closers	Apr. 6, 1897
580,092	Moore, R. L	Telegraphy, circuit-closers	Apr. 6, 1897
580,165	Stephens, J	Railways, conductor supports and insulators	Apr. 6, 1897
580,166	Stone, J. S	Telephones, systems, central	Apr. 6, 1897
580,180	Wade, Moores, and Farrell	Regulators, sectional winding	Apr. 6, 1897
580,206	Blackmore, R. W	Inductoriums, transformers, stationary	Apr. 6, 1897
580,244	Yarnold, C. J	Electrolysis, ozone	Apr. 6, 1897
580,246	Babendreier, A. O	Railways, systems, conduit	Apr. 6, 1897
580,256	Davy, W. J	Lights, arc, gravity-feed, gear-clutch	Apr. 6, 1897
580,276	Harrington, W. E	Electromagnets	Apr. 6, 1897
580,277	Harrington, W. E	Cut-outs, electromagnetic	Apr. 6, 1897
580,320	Jones, H. C	Cut-outs, thermal, plug	Apr. 6, 1897
580,555	Lubbe, H. W	Magneto-electric, hand-machines	Apr. 6, 1897
580,556	Davis, H. P	Railways, systems, overhead	Apr. 13, 1897
580,581	Davis, H. P	Railways, conductor supports and insulators	Apr. 13, 1897
580,584	Duncan, T	Galvanometers	Apr. 13, 1897
580,428	Schneider, F. W	Batteries, secondary	Apr. 13, 1897
580,434	Stromberg and Carlson	Telephones, granular	Apr. 13, 1897
580,451	Conchar, J. W	Aqueous bath, depolarizing and burnishing	Apr. 13, 1897
580,490	Hicks, T. H	Regulators, compounding-machines	Apr. 13, 1897
580,497	Laura, G	Batteries, two-fluid, zinc, sulphates	Apr. 13, 1897
580,519	Brinkerhoff, F. M	Railway signals, track instruments	Apr. 13, 1897
580,523	Gordon, R. W	Batteries, one-fluid, zinc, oxide	Apr. 13, 1897
580,552	Munroe, D. M	Alarms, burglar	Apr. 13, 1897
580,557	Schwerin, R. P	Lights, incandescent, special features	Apr. 13, 1897
580,584	Robertson, A. J	Conductors	Apr. 13, 1897
580,598	Elliott, W. S	Railway rolling-stock, locomotives	Apr. 13, 1897
580,617	Kreusler, H	Telegraphy, printing	Apr. 13, 1897
580,628	Treharne, F. G	Insulators	Apr. 13, 1897
580,637	Blackmore, S. P	Telegraphy, lightning-arresters	Apr. 13, 1897
580,663	Elliott, E	Lighting, systems	Apr. 13, 1897
580,678	Brady, T. H	Cut-outs, oscillating spring	Apr. 13, 1897
580,680	Doscher, J. H	Telegraphy, circuit-closers, lock	Apr. 13, 1897
580,708	Orme, R	Railways, systems, overhead, trolleys	Apr. 13, 1897
580,734	Siebold, A. C	Lights, arc, special features	Apr. 13, 1897
580,820	Scheeren, E. J. M	Locks and latches	Apr. 13, 1897
580,851	Dye, L. E	Telephones, magnetic	Apr. 20, 1897

No.	NAME.	CLASS.	DATE.
580,853	Eagan, C. E	Telephones, systems, central	Apr. 20, 1897
580,889	Parcelle, A. L	Magneto-electric, armatures, ring	Apr. 20, 1897
580,919	Woolf, A. E	Aqueous bath, chemicals	Apr. 20, 1897
580,927	Buell, C. E	Telegraphy, fire, automatic	Apr. 20, 1897
580,929	Colgate, G. L	Lighting, systems, hand-regulation	Apr. 20, 1897
580,931	Davidson and Armstrong	Annunciators, drop system	Apr. 20, 1897
580,951	McGuire and Hubbard	Railway rolling-stock, motors	Apr. 20, 1897
580,957	Rolfe, C. A	Cut-outs, thermal	Apr. 20, 1897
580,973	Geisenhener, C. A	Railway signals	Apr. 20, 1897
580,977	Jeck, G. L	Magneto-electric, armatures, pole	Apr. 20, 1897
580,987	Moore, D. McF	Lighting, systems	Apr. 20, 1897
580,988	Moore, D. McF	do	Apr. 20, 1897
581,023	Foster, S. L	Railways, conductor supports and insulators	Apr. 20, 1897
581,034	Pike, C. F	Mills, amalgamators	Apr. 20, 1897
581,044	Smith, W. F	Telephones, systems	Apr. 20, 1897
581,052	Woolf, A. E	Electrolysis, bleaching	Apr. 20, 1897
581,088	Sharpe, J. E	Insulators	Apr. 20, 1897
581,089	Southworth, M. O	Magneto-electric, multipolar	Apr. 20, 1897
581,091	Wappeler, R. H	Systems of distribution	Apr. 20, 1897
581,104	Dickerson, E. N	Batteries, secondary	Apr. 20, 1897
581,129	Nevius, L. W	Lights, incandescent, special features	Apr. 20, 1897
581,135	Porter, M. M	Telegraphy, keys	Apr. 20, 1897
581,136	Preece, W. L	Lights, arc, gravity-feed, clutch	Apr. 20, 1897
581,160	Hirshing, H	Aqueous bath, ores	Apr. 20, 1897
581,170	Nebel, J	Conductors, rheostats	Apr. 20, 1897
581,199	Easton, C. F	Lights, incandescent, special features	Apr. 20, 1897
581,204	Hefty, B	Motors, reciprocating	Apr. 20, 1897
581,242	Viele, F. S	Railways, conductor supports and insulators	Apr. 20, 1897
581,246	Buell, C. E	Telephones, systems, central	Apr. 20, 1897
581,263	Brown, H. P	Conductors, connectors	Apr. 27, 1897
581,264	Brown, W. M	Railways, sectional conductor, magnetic closers	Apr. 27, 1897
581,281	Griffin, J. D	Railways, systems, conduit	Apr. 27, 1897
581,283	Harris, V. M	Batteries, secondary	Apr. 27, 1897
581,298	McFall, W. H	Meters	Apr. 27, 1897
581,327	Borradaile, L. L	Igniting devices	Apr. 27, 1897
581,340	Cutten, E. B	Magneto-electric, hand-machines	Apr. 27, 1897
581,350	Keelyn, J. E	Telephones, magnetic	Apr. 27, 1897
581,363	Naber, H. A	Meters	Apr. 27, 1897
581,365	Nienstaedt, E	Lighting, mantles	Apr. 27, 1897
581,366	Poole, C. C	Magneto-electric, bipolar	Apr. 27, 1897
581,368	Priest, E. D	Railways, systems, conduit	Apr. 27, 1897
581,406	Morton, W. J	Telephones, magnetic	Apr. 27, 1897
581,411	Burry, J	Telegraphy, printing, multiple-wheel	Apr. 27, 1897
581,415	Damon and Pearson	Railway-brakes, fluid-pressure	Apr. 27, 1897
581,426	Moffatt, R. R	Batteries, one-fluid, zinc	Apr. 27, 1897
581,430	Roberts, R. S	Railway signals	Apr. 27, 1897
581,446	West, H. C	Telephones, systems	Apr. 27, 1897
581,455	Dean, W. W	Cut-outs, thermal	Apr. 27, 1897
581,456	Dean, W. W	do	Apr. 27, 1897
581,460	Harrington, W. E	do	Apr. 27, 1897
581,465	Kirby, J., Jr	Lights, incandescent, special features	Apr. 27, 1897
581,528	Barton, J. J	Bells	Apr. 27, 1897
581,540	Dennis, J	Lighting, systems, display	Apr. 27, 1897
581,544	Enholm and Beck	Telegraphy, circuit-closers, thermal	Apr. 27, 1897
581,557	Huff, S. W	Motors, hand-operating, devices	Apr. 27, 1897
581,561	Mass, H. W	Telephones, calls, step-by-step	Apr. 27, 1897
581,562	Newton, H. S	Conductors, connectors	Apr. 27, 1897
581,643	Wright, W	Mills, amalgamators	Apr. 27, 1897
581,658	Chapman, W. H	Regulators, resistance	Apr. 27, 1897
581,678	Nesbit, J	Games and toys, toys	Apr. 27, 1897
581,644	Hunter, R. M	Systems of distribution	Apr. 27, 1897
581,706	Eyanson, G. T	Cut-outs, mechanical, oscillating snap	May 4, 1897
581,715	Guilleaume, M	Conductors	May 4, 1897
581,718	Handshy, H. M	Igniting devices, manual	May 4, 1897
581,769	Reagan, H. C	Railways, sectional conductor, magnetic closers	May 4, 1897
581,773	Sayer, R. C	Railways, general	May 4, 1897
581,775	Schwabe, C	Electrolysis, multiple	May 4, 1897
581,792	Tesseyman, H	Railway rolling-stock, motors, rigid frame	May 4, 1897
581,802	Alsop, C. R	Railway signals	May 4, 1897
581,815	Eaton, C. F	Telegraphy, printing, wheel	May 4, 1897
581,873	Thomson, E	Inductometers, transformers, stationary	May 4, 1897
582,036	Bryant, W. C	Conductors, connectors	May 4, 1897
582,077	Motz, E	Mills, amalgamators	May 4, 1897
582,085	Pike, F. N	Igniting devices, manual	May 4, 1897
582,090	Raps, A	Galvanometers	May 4, 1897

No.	NAME.	CLASS.	DATE.
582,093	Riley, G. B.	Telegraphy, circuit-closers, thermal	May 4, 1897
582,102	Schmidt and Davis	Motors, hand-operating devices	May 4, 1897
582,107	Whittemore, Barrett, and Craft	Telephones, calls, strength and polarity	May 4, 1897
582,111	Wurts, A. J.	Cut-outs, mechanical	May 4, 1897
582,114	Davis, H. P.	Motors, hand-operating devices	May 4, 1897
582,115	Davis, H. P.	do	May 4, 1897
582,120	Franke, A.	Galvauometers	May 4, 1897
582,131	Lamme, B. G.	Transmission of power, phase regulation	May 4, 1897
582,149	Spiker, J. A.	Cut-outs, mechanical, rotary	May 4, 1897
582,157	Eaton, C. F.	Telegraphy, printing	May 4, 1897
582,200	Green, R. P.	Telephones	May 11, 1897
582,218	Mosher, J. A.	Motors, reciprocating	May 11, 1897
582,233	Rites, F. M.	Regulators, engine-control	May 11, 1897
582,237	Schimpff, H.	Transmission of power, direct	May 11, 1897
582,259	Brown, W. M.	Railways, systems, overhead, trolleys	May 11, 1897
582,262	Bryan, J.	Railways, trolley-operated track switches	May 11, 1897
582,269	Clark, E. P.	Magneto-electric, armatures, ring	May 11, 1897
582,273	De Witt, B.	Cloeks	May 11, 1897
582,303	Newton, W. J.	Cut-outs, mechanical, oscillating snap	May 11, 1897
582,337	Atwood, J. E.	Railways, conductor supports and insulators	May 11, 1897
582,342	Chaffin, E. L.	Aqueous bath, cathode	May 11, 1897
582,344	Cook, E. J.	Railways, conductor supports and insulators	May 11, 1897
582,364	McCarroll, W.	Printing, elektrotyping	May 11, 1897
582,378	Smith, J. D.	Lights, filaments and carbons	May 11, 1897
582,396	Schuee, W. G.	Insulators	May 11, 1897
582,435	Pyott, L. T.	Railway rolling-stock, motors, bogies	May 11, 1897
582,459	Cottingham, W. H.	Lighting, mantles	May 11, 1897
582,461	Dean, W. W.	Annunciators	May 11, 1897
582,462	Dickerson, E. N.	Conductors, connectors	May 11, 1897
582,464	Duseberg, C. C.	do	May 11, 1897
582,481	Nolan, E. E.	Magneto-electric, armatures, ring	May 11, 1897
582,493	Telge, G. A. J.	Meters	May 11, 1897
582,494	Westinghouse, G.	Magneto-electric, armatures, ring	May 11, 1897
582,513	Alexander, H. C.	Telephones, granular	May 11, 1897
582,514	Anderson, J. M.	Conductors, conduits	May 11, 1897
582,522	Dunderdale, C. F.	Telephones, magnetic	May 11, 1897
582,578	Clark, Ellacott, and Johnson	Telephones, systems, automatic	May 11, 1897
582,615	Bezer, H.	Railway signals	May 18, 1897
582,649	Killmer, J. L.	Lighting, systems, display	May 18, 1897
582,663	Morgan, W. H.	Motors, hand-operating devices	May 18, 1897
582,664	Mosher, J. A.	Lights, arc, gravity-feed, pivot-dog clutch	May 18, 1897
582,665	Mosher, J. A.	Lights, arc, gravity-feed, ring-clutch	May 18, 1897
582,691	Rushmore, S. W.	Lights, arc, gravity-feed, gear-clutch	May 18, 1897
582,698	Scott, C. II.	Connectors	May 18, 1897
582,721	Deuther, J. A.	Medical and surgical, electrodes	May 18, 1897
582,742	Horan, J. J.	Alarms, barokinetic	May 18, 1897
582,772	Von Zweigbergk, T.	Motors, hand-operating devieies	May 18, 1897
582,773	Absuerdam, J.	Telephones, systems	May 18, 1897
582,840	Wright, E. II.	Cut-outs, mechanical, oscillating snap	May 18, 1897
582,849	Daniels, F. H.	Connectors	May 18, 1897
582,862	Hoff, C.	Cut-outs, hangers	May 18, 1897
582,882	Short, S. H.	Railways, systems, overhead, trolleys	May 18, 1897
582,883	Short, S. H.	Magneto-electric, brushes and holders	May 18, 1897
582,884	Short, S. H.	do	May 18, 1897
582,889	Williams, Kinney, and Kinney	Fences, gates, railway	May 18, 1897
582,891	Worms, E.	Ele-trolysis, tauning	May 18, 1897
582,901	Dennis, C. W.	Telephones, details	May 18, 1897
582,907	Feevey, F. T.	Railways, conductor supports and insulators	May 18, 1897
582,910	Groshaus, J. J.	Conductors, conduits	May 18, 1897
582,913	Garl, M.	Telephones, systems, intermediate sub-sta-tion.	May 18, 1897
582,918	Hobbs, H. E.	Music, organ, actions, electropneumatic	May 18, 1897
582,923	Hunt, A. E.	Electrolysis, fused bath	May 18, 1897
582,936	Majert, W.	Batteries, secondary	May 18, 1897
583,026	Burke, C. G.	Telegraphy, automatic	May 25, 1897
583,039	Fisk, P. H.	Telephones, calls	May 25, 1897
583,043	Gibbs, J. W.	Medical and surgical, soles	May 25, 1897
583,060	La Roche, F. A.	Lights, arc, gravity-feed, gear-clutch	May 25, 1897
583,092	Shapleigh, W.	Mantles	May 25, 1897
583,104	Wattles, L. H.	Batteries, gas	May 25, 1897
582,128	Schmidt, P.	Batteries, one-fluid, zinc	May 25, 1897
583,131	Stiebel, H. G.	Eleetrolysis, purifying liquids, water	May 25, 1897
583,132	Sutton and Steele	Batteries, two-fluid, zinc	May 25, 1897
583,142	Duque and Cosgrove	Telephones, supports	May 25, 1897
583,160	Wright, A.	Galvanometers	May 25, 1897
583,173	Emery, C. E.	Regulators, compounding-machines	May 25, 1897
583,178	Hoffman, J. H.	R'ys, sectional conductor, magnetic closers	May 25, 1897

No.	NAME.	CLASS.	DATE.
583,187	Lery, J. B. de	Mantles	May 25, 1897
583,204	Swan, A	Lights, incandescent	May 25, 1897
583,208	Brown, G. J	Igniting devices, manual	May 25, 1897
583,242	Wright, J. A	Connectors	May 25, 1897
583,249	Cowles, A. H	Furnaces	May 25, 1897
583,250	Cowles, A. H	do	May 25, 1897
583,255	Georges, E. A	Aqueous bath, cathodes	May 25, 1897
583,264	Lundell, R	Motors, hand operating devices	May 25, 1897
583,273	Zweigbergk, T. von	do	May 25, 1897
583,303	Fargo, W. H	Igniting devices, manual	May 25, 1897
583,304	Goetz, A. C	Indicators, station	May 25, 1897
583,305	Haskins, J. T	Bells	May 25, 1897
583,309	McLanglin, J	Connectors	May 25, 1897
583,323	Bramwell, C. C	Lighting, systems, secondary-battery	May 25, 1897
583,324	Brown, W. M	Railways, sectional conductor, magnetic closers.	May 25, 1897
583,326	Cary, J. H	Steam valves, throttle	May 25, 1897
583,330	Le Sueur, E. A	Aqueous bath, chemicals	May 25, 1897
583,354	Anstis, F. B	Mills, amalgamators	May 25, 1897
583,405	Corbett, E. S	Alarms, burglar	May 25, 1897
583,418	Roberson, O. R	Telegraphy, quadruplex	May 25, 1897
583,423	Wheeler, A. D	Telegraphy, repeaters	May 25, 1897
583,452	Brady, T. H	Cut-outs, mechanical, oscillating snap	June 1, 1897
583,513	Spilker, W	Aqueous bath, apparatus	June 1, 1897
583,521	Wheeler, A. G	Railways, systems, conduit	June 1, 1897
583,525	Wheeler, A. G	do	June 1, 1897
583,575	Hirt, L. J	do	June 1, 1897
583,589	Austin, F. E	Connectors	June 1, 1897
583,618	Eldridge, Wright, and Clark	Metallurgy, furnaces	June 1, 1897
583,622	Heedt, P. M	Systems of distribution	June 1, 1897
583,630	Parke, J. J	Igniting, devices, manual	June 1, 1897
583,644	Fraser, J. R	Alarms, burglar	June 1, 1897
583,672	Daniels, A. L	Conductors, house-wiring	June 1, 1897
583,692	Renault, E	Insulators	June 1, 1897
583,718	Teter, W. L	Electrolysis, purifying liquids, water	June 1, 1897
583,787	Christie, W	Insulators	June 1, 1897
583,810	May and King	Batteries, secondary	June 1, 1897
583,820	Russell, S. H	Lights, sockets and keys	June 1, 1897
583,868	Johnson, G. E	Railways, systems, overhead, trolleys	June 1, 1897
583,881	McIntire, C. S	do	June 1, 1897
583,900	Harris, J	Meters	June 8, 1897
583,902	Harrington and Somers	Connectors	June 8, 1897
583,903	Harrington and Somers	do	June 8, 1897
583,912	Krotz, A. S	Batteries, secondary	June 8, 1897
583,916	Marchand and Marchand	Lights, arc, special features	June 8, 1897
583,926	McRoy, J. T	Railways, systems, conduit	June 8, 1897
583,933	Pillsbury, E. S	Motors, alternating, starters	June 8, 1897
583,934	Potter, W. B	Galvanometers	June 8, 1897
583,935	Potter and Case	Motors, hand-operating devices	June 8, 1897
583,936	Rice, E. F	Metallurgy, furnaces	June 8, 1897
583,938	Priest, E. D	Motors, hand-operating devices	June 8, 1897
583,939	Priest and Merrick	do	June 8, 1897
583,944	Rice, E. W	Inducto-rumus, transformers, stationary	June 8, 1897
583,945	Rodriguez, A. M	Lights, incandescent, special features	June 8, 1897
583,950	Steinmetz, C. P	Meters	June 8, 1897
583,951	Steinmetz, C. P	do	June 8, 1897
583,953	Tesla, N	Motors, transmission of power	June 8, 1897
583,955	Thomson, E	Lights, arc, special features	June 8, 1897
583,956	Thomson, E	Lights, incandescent, special features	June 8, 1897
583,957	Thomson, E	Meters	June 8, 1897
583,959	Waegel, W	Lights, incandescent, special features	June 8, 1897
583,963	Winckler, G	Cut-outs, mechanical	June 8, 1897
583,957	Ekstrom, A	Telegraphy, lightning-arresters	June 8, 1897
583,991	Geisenhöner, H	Magneto-electric, armatures, drum	June 8, 1897
583,997	Hewlett, E. M	Railways, general	June 8, 1897
584,009	McClintock, T. S	Cut-outs, thermal	June 8, 1897
584,013	Potter, W. B	Connectors	June 8, 1897
584,029	Woodbridge, J. L	Lighting, systems, hand-regulation	June 8, 1897
584,050	Deminger, H	Purifying liquids, alcohol	June 8, 1897
584,056	Jolles, B	Igniting devices, automatic	June 8, 1897
584,062	Parsball, H. F	Regulators, alternating	June 8, 1897
584,128	Gerry, J. H	Clocks	June 8, 1897
584,149	Watters, L. H	do	June 8, 1897
584,155	Gartland, C. C	Regulators, resistance	June 8, 1897
584,173	Chance, A. B	Annunciators, time	June 8, 1897
584,184	Moyer, G. L	Lights, arc, gravity-feed, ring-clutch	June 8, 1897
584,185	Moyer, G. L	Cut-outs, mechanical, rotary	June 8, 1897

NO.	NAME.	CLASS.	DATE.
584,186	Moyer, G. L	Lights, arc, gravity-feed, clutch	June 8, 1897
584,202	Arnold, W. T	Alarms, burglar	June 8, 1897
584,235	Nesmith and Arnett	Coudctors, insulators	June 8, 1897
584,242	Salom, P. G	Aqueous bath, ores	June 8, 1897
584,249	Van Hoevenbergh, H	Cut-outs, thermal	June 8, 1897
584,297	Stack, J. T	Telegraphy, fire	June 8, 1897
584,229	Welden, B. F	Conductors, connectors	June 8, 1897
584,321	Bradford, E. M	Lights, sockets and keys	June 15, 1897
584,338	Eldred, H. H	Magneto-electric, hand-machines	June 15, 1897
584,341	Fiske, B. A	Motors, transmission of power, direct	June 15, 1897
584,352	Harter, W. H	Telephones, calls, reed	June 15, 1897
584,356	Hegner, I. H	Lights, arc, gravity-feed, gear-clutch	June 15, 1897
584,382	Luraschi, A	Telegraphy, circuit-closers, thermal	June 15, 1897
584,383	Luscomb, H. H	Railways, conductor supports and insulators	June 15, 1897
584,384	Macklin, A. B	Telegraphy, fire, variable signal, dial	June 15, 1897
584,393	McBerty, F. R	Telephones, systems, central	June 15, 1897
584,414	Scribner, C. E	Annunciators, drop	June 15, 1897
584,415	Scribner, C. E	Telephones, systems, central	June 15, 1897
584,416	Scribner, C. E	Bells	June 15, 1897
584,417	Scribner, C. E	Telephones, systems, central	June 15, 1897
584,418	Scribner, C. E	Telephones, switchboards	June 15, 1897
584,427	Tabulewitch, V	Lighting, systems	June 15, 1897
584,428	Tucker, A. L	Conductors, house-wiring	June 15, 1897
584,431	Wait, H. H	Magneto-electric, armatures, ring	June 15, 1897
584,462	Creelman, A. L	Telegraphy, circuits and systems	June 15, 1897
584,463	Creelman, A. L	Cut-outs, electromagnetie	June 15, 1897
584,464	Creelman, A. L	Telegraphy, relays and sounders	June 15, 1897
584,465	Creelman, A. L	Telegraphy, circuits and systems	June 15, 1897
584,466	Creelman, A. L	do	June 15, 1897
584,474	Kitsee, I	Batteries, one-fluid, zinc, oxides	June 15, 1897
584,476	Libbey, S. H	Railways, conductor supports and insulators	June 15, 1897
584,477	Libbey, S. H	do	June 15, 1897
584,482	Rice, E. W	Railways, systems, distribution	June 15, 1897
584,511	Kloman, T. W	Railways, sectional conductor, mechanical closers	June 15, 1897
584,577	Danielson, E	Regulators, alteruating	June 15, 1897
584,606	Short, S. H	Railways, systems, overhead, trolleys	June 15, 1897
584,607	Short, S. H	do	June 15, 1897
584,618	Alexander, H. C	Telephones, granular	June 15, 1897
584,632	Gast, G. H	Cut-outs, thermal, successive	June 15, 1897
584,639	Jones, H. M	Railways, sectional conductor, magnetic closers	June 15, 1897
584,644	Newberry, F. T	Conductors, connectors	June 15, 1897
584,649	Pattou, W. P	Batteries, secoudary	June 15, 1897
584,691	Mersh, P	Lighting, mantles	June 15, 1897
584,700	Orr and Fugh	Indicators, station	June 15, 1897
584,722	Burke, C. G	Telegraphy, perforating	June 15, 1897
584,737	Gould, C. C	Telephones, granular	June 15, 1897
584,750	Scribner, C. E	Lights, incandescent	June 15, 1897
584,798	Sutton and Steele	Alarms, burglar	June 22, 1897
584,810	Barnum, R. S	Telephones, granular	June 22, 1897
584,819	Garl, M	Telephones, systems, central	June 22, 1897
584,823	Mead, G. W	Insulators	June 22, 1897
584,831	Smith and Johnston	Railways, systems, overhead, trolleys	June 22, 1897
584,843	Belfield, R	Systems of distribution	June 22, 1897
584,848	Bostian, C. P	Lighting, mantles	June 22, 1897
584,853	Chellis, E. W	Magneto-electric, hand-machines	June 22, 1897
584,856	Davis, H. P	Motors, hand-operating devices	June 22, 1897
584,867	Foote, T. M	Lights, filauments and carbons	June 22, 1897
584,868	Geut, Stavely, and Parsons	Telephones, granular	June 22, 1897
584,871	Gordon, A. J	Telephones, supports	June 22, 1897
584,873	Hunter, F. W	Railways, systems, conduit	June 22, 1897
584,911	Westinghouse, G	Railways, systems, overhead	June 22, 1897
584,912	Yearsley, J. H	Magneto-electric, brushes and holders	June 22, 1897
584,918	Beutley, E. M	Railways, systems, overhead, trolleys	June 22, 1897
584,936	Henry, I. W	Conductors	June 22, 1897
584,957	Patten, F. J	Railways, systems, distribution	June 22, 1897
584,983	Bureau, A	Lights, arc, gravity-feed, gear-clutch	June 22, 1897
585,026	Delery, R	Insulators	June 22, 1897
585,030	Harrington, W. E	Cut-outs, electromagnetic	June 22, 1897
585,040	Laval, C. G. P. de	Metallurgy, furnaces	June 22, 1897
585,047	Peterseu, C	Railways, systems, condnit	June 22, 1897
585,051	Smith and Deakin	Depolarizing and burnishing	June 22, 1897
585,072	Alexander, R. E	Telegraphy, fire	June 22, 1897
585,091	Elfeldt, C. R	Lighting, mantles	June 22, 1897
585,094	Gray, F	Alarms	June 22, 1897
585,137	Truitt, C	Lights, incandescent, special features	June 22, 1897

No.	NAME.	CLASS.	DATE.
585,138	Vandevelde, P. V	Telegraphy, circuit-closers, lock	June 22, 1897
11,612	Hanson and Chapman	Reissue	June 22, 1897
585,171	Arnold, W. T	Railways, conductor supports and insulators	June 29, 1897
585,185	Crane, H. M	Alarms, burglar	June 29, 1897
585,229	Reagan, H. C	Conectors	June 29, 1897
585,248	Baumann and Wurmb	Batteries, thermal	June 29, 1897
585,250	Bennett, E. H	Clocks	June 29, 1897
585,255	Brown, W. M	Lights, incandescent, special features	June 29, 1897
585,257	Cox, F. P	Railways, sectional conductor, magnetic closers.	June 29, 1897
585,258	Cox, F. P	Meters	June 29, 1897
585,267	Gairing, A. J	do	June 29, 1897
585,287	Rice, E. W	Railways, systems, overhead, trolleys	June 29, 1897
585,293	Stahl, S. H	Lighting, systems, test	June 29, 1897
585,301	Wurmb and Baumann	Railways, systems, overhead, trolleys	June 29, 1897
585,307	Emery, C. E	Clocks	June 29, 1897
585,308	Fraley, G. B	Regulators	June 29, 1897
585,309	Fraley, G. B	Heaters	June 29, 1897
585,310	Fraley, G. B	do	June 29, 1897
585,311	Fraley, G. B	do	June 29, 1897
585,316	Klein, P. H	Lights, arc, special features	June 29, 1897
585,317	Klein and Lavens	do	June 29, 1897
585,318	Lavens, E	do	June 29, 1897
585,319	McPherson, L. O	Telegraphy, automatic	June 29, 1897
585,321	Van de Wiele, L. F	Lights, incandescent, special features	June 29, 1897
585,342	Parrish, M. W	Telegraphy, railway car	June 29, 1897
585,350	Noreck, H	Lights, incandescent, special features	June 29, 1897
585,355	Burghardt and Rigg	Electrolysis, aqueous bath, ores	June 29, 1897
585,359	Hoefner, L	Batteries, secondary	June 29, 1897
585,379	Dorman, G. E	Motors, alternating, starters	June 29, 1897
585,380	Dunham, W. C	Railways, systems, overhead, trolleys	June 29, 1897
585,387	Kelleer, C	Electrolysis, aqueous bath, metallizing	June 29, 1897
585,444	Leonard, H. W	Motors, hand-operating devices	June 29, 1897
585,472	Hatch, G. E	Batteries, secondary	June 29, 1897
585,473	Hatch, G. E	do	June 29, 1897
585,480	Roebuck, A. C	Horology, time-alarms	June 29, 1897
585,492	Webb, J. F	Aqueous bath, ores	June 29, 1897
585,507	Clark, A. J	Cut-outs, hangers	June 29, 1897
585,511	Cuttler, H. H	Motors, hand-operating devices	June 29, 1897
585,512	Cuttler, H. H	do	June 29, 1897
585,527	Lindberg, C	Meters	June 29, 1897
585,560	Dunderdale, C. F	Telephones, switches	June 29, 1897
585,579	Kellogg, J. C	Railways, systems, overhead, trolleys	June 29, 1897
585,602	Thleim, V	do	June 29, 1897
585,603	Toerring, C. J	Lights, arc, gravity-feed, double-dog clutch	June 29, 1897
585,620	Cox, H. B	Lighting, systems, secondary-battery	June 29, 1897



---

## APPENDIX No. XVI.

### PART III.

CONSISTING OF AN

### ALPHABETICAL INDEX OF ALL PATENTS

RELATING TO

### ELECTRICITY.

Issued from July 1, 1896, to June 30, 1897, inclusive, giving names of Inventors, number and dates of Patents, and the sub-class to which each belongs.

---



# ALPHABETICAL INDEX

OF

## PATENTS RELATING TO ELECTRICITY

FROM JULY 1, 1896, TO JUNE 30, 1897.

NO.	NAME.	CLASS.	DATE.
582,773	Absterdam, J.	Telephones, systems	May 18, 1897
568,323	Acheson, E. G.	Electrolysis, fused bath	Sept. 29, 1896
575,090	Adam, C. F.	Insulators	Jan. 12, 1897
578,182	Adam, G. F. C.	Motors, hand-operating devices	Mar. 2, 1897
573,750	Adams, L.	Conductors, lightning-rods	Dec. 22, 1896
579,032	Adams, T. E.	Lights, arc, gravity-feed, clutch	Mar. 16, 1897
568,079	Adams, W. S.	Railway rolling-stock, motors	Sept. 22, 1896
565,657	Ader, C.	Telegraphy, automatic	Aug. 11, 1896
571,426	Agelasto, M. A.	Measuring instruments, telethermometers	Nov. 17, 1896
576,933	Ageron, J. A.	Lighting, systems, car	Feb. 9, 1897
566,120	Ahlm, C. E. F.	Magneto-electric, multipolar	Aug. 18, 1896
571,059	Allan, T. W.	Batteries, secondary	Nov. 10, 1896
572,512	Albert, H.	Aqueous bath, apparatus	Dec. 8, 1896
563,723	Alexander, H.	Electrolysis, alloys	July 14, 1896
569,908	Alexander, H. C.	Telephones, granular	Oct. 20, 1896
582,513	Alexander, H. C.	do	May 11, 1897
584,618	Alexander, H. C.	do	June 15, 1897
576,082	Alexander, J. P.	Railways, sectional conductor, magnetic closers.	Feb. 2, 1897
585,072	Alexander, R. E.	Telegraphy, fire	June 22, 1897
572,944	Alexander and Gillham	Telegraphy, relays and sonnders	Dec. 15, 1896
577,635	Alexander and Gillham	Railway signals, sectional rail	Feh. 23, 1897
581,802	Alsop, C. R.	Railway signals	May 4, 1897
571,738	Alwies, H.	Indicators, station	Nov. 24, 1896
577,373	Amstutz, N. S.	Telegraphy, automatic	Feb. 16, 1897
575,131	Anderson, H. A. C.	Batteries, one-fluid, zinc	Mar. 2, 1897
582,514	Anderson, J. M.	Conductors, conduits	May 11, 1897
565,952	Andreoli, E.	Electrolysis, synthesis, ozone	Aug. 18, 1896
565,953	Andreoli, E.	Electrolysis, aqueous bath, ores	Aug. 18, 1896
568,724	Andreoli, E.	Aqueous bath, apparatus	Oct. 6, 1896
577,636	Andreoli, E.	Synthesis, ozones	Feb. 23, 1897
565,823	Andrews, R. McG	Telephones, systems, multiple switchboard, test	Aug. 11, 1896
569,989	Anthony, W. A.	Motors, hand-operating devices	Oct. 27, 1896
572,188	Appleman, L. D.	Telephones, granular	Dec. 1, 1896
571,257	Appleyard, A. E.	Stoves and furnaces, heaters	Nov. 10, 1896
575,047	Armen, A. H.	Cut-outs, mechanical	Jan. 12, 1897
571,467	Armstrong, A. H.	Regulators, alternating	Nov. 17, 1896
577,279	Armstrong, J. T.	Igniting devices, manual	Feb. 16, 1897
564,771	Armstrong, W. C.	Lights, arc, special features	July 28, 1896
564,772	Armstrong, W. C.	do	July 28, 1896
577,816	Arnold, H. V.	Lighting, systems, display	Feb. 23, 1897
567,531	Arnold, W. S.	Lights, incandescent, special features	Sept. 8, 1896
584,202	Arnold, W. T.	Alarms, burglar	June 8, 1897
585,171	Arnold, W. T.	do	June 29, 1897
563,724	Arthur, J. M.	Indicators	July 14, 1896
563,725	Ash, W. V.	Railway-brakes, electric, solenoid-operated	July 14, 1896
574,370	Atterbury, T. B.	Lights, incandescent, stopper	Jan. 5, 1897
582,337	Atwood, J. E.	Railways, conductor supports and insulators	May 11, 1897
583,354	Austin, F. B.	Mills, amalgamators	May 25, 1897
583,589	Austin, F. E.	Connectors	June 1, 1897
575,093	Babcock, J. F.	Alarms	Jan. 12, 1897
580,246	Babendreier, A. O.	Railways, systems, conduit	Apr. 6, 1897
565,662	Bach, C.	Cut-outs, mechanical, oscillating snap	Aug. 11, 1896
578,707	Bacon, F. R.	Motors, hand-operating devices	Mar. 16, 1897
566,288	Badt and Lyford	Magneto-electric, armatures, ring	Aug. 25, 1896
576,936	Badt, F. B.	Batteries, vessels	Feh. 9, 1897
579,556	Badt, F. B.	Lighting, systems, safety	Mar. 30, 1897
571,739	Badt, F. E.	Applications, general	Nov. 24, 1896
569,851	Baer, H.	Alarms	Oct. 20, 1896
567,560	Eagnall, E. J.	Railway rolling-stock, locomotives, geared	Sept. 8, 1896

## ALPHABETICAL INDEX—ELECTRICITY.

NO.	NAME.	CLASS.	DATE.
572,467	Baker, B. E	Stoves and furnaces, heaters	Dec. 1, 1896
579,250	Baker, E	Aqueous bath, chemicals	Mar. 23, 1897
571,468	Barbour, T. P	Aqueous bath, ores	Nov. 17, 1896
571,504	Barkalow and Crawford	Telephones, granular	Nov. 17, 1896
568,013	Barney, T. R	Telegraphy, circuit-closers	Sept. 22, 1896
574,654	Barnum, R. S	Telephones, systems, magnetic	Jan. 5, 1897
584,810	Barnum, R. S	Telephones, granular	June 22, 1897
575,869	Barnum, R. T	do	Jan. 26, 1897
578,710	Barrett, C. T	Batteries, secondary	Mar. 16, 1897
569,401	Barrett, J. A	Telephones, systems, intermediate sub-station.	Oct. 13, 1896
581,528	Barton, J. J	Bells	Apr. 27, 1897
568,891	Bassett, N. C	Railway rolling-stock, locomotives	Oct. 6, 1896
569,738	Bassett, N. C	Railways, systems, overhead, trolleys	Oct. 20, 1896
563,544	Bateman, T. O	Signaling, alarms	July 7, 1896
585,248	Bauman and Wnrbm	Clocks	June 29, 1897
576,802	Baurlein, H	Lights, arc, gravity-feed, gear-clutch	Feb. 9, 1897
568,423	Beach, C E	Annunciators, drop	Sept. 29, 1896
578,386	Beach, C. E	Telegraphy, Morse register	Mar. 9, 1897
563,883	Beams, A. J	Horology, time alarms	July 14, 1896
563,546	Bean, M. F	Railways, systems, overhead	July 7, 1896
566,283	Beckwith, D. O	Railway signals, block systems	Aug. 18, 1896
563,250	Bell, O. A	Telephones, multiple switchboard, test	July 7, 1896
584,843	Belfield, R	Systems of distribution	June 22, 1897
575,322	Benjamin, R. B	Lights, sockets and keys	Jan. 19, 1897
585,250	Bennett, E. H	Lights, incandescent, special features	June 29, 1897
566,648	Bennett, Somerville, and McLeau	Telephones, systems, central	Ang. 25, 1896
568,713	Benson, C. C	Conductors, connectors	Sept. 29, 1896
574,377	Bentley, E. M	Railways, systems, overhead, trolleys	Jan. 5, 1897
575,454	Bentley, E. M	Motors, hand-operating devices	Jan. 19, 1897
584,918	Bentley, E. M	Railways, systems, overhead, trolleys	June 22, 1897
563,440	Berg, E. J	Motors, alternating, starters	July 7, 1896
566,887	Berrigan, W. H	Railway signals, sectional rail	Sept. 1, 1896
582,615	Bezer, H	Railway signals	May 18, 1897
578,853	Bierman, H	Railway signals, sectional rail	Mar. 16, 1897
576,193	Bigger, J. S	Fences, gates	Feb. 2, 1897
576,392	Billings, H. E	Railways, conductor supports and insulators	Feb. 2, 1897
567,879	Birth, F. S	Railways, systems, overhead, trolleys	Sept. 15, 1896
575,099	Bishop, J. E	do	Jan. 12, 1897
568,229	Blackman, H	Aqueous bath, anodes	Sept. 22, 1896
568,230	Blackman, H	do	Sept. 22, 1896
568,231	Blackman, H	do	Sept. 22, 1896
580,206	Blackmore, R. W	Inductoiums, transformers, stationary	Apr. 6, 1897
580,637	Blackmore, S. P	Telegraphy, lightning-arresters	Apr. 13, 1897
573,130	Blackwell, F. O	Magneto-electric, multipolar	Dec. 15, 1896
578,539	Blamey, E	Railways, systems, overhead, trolleys	Mar. 9, 1897
563,998	Blanchard, H. H	do	July 14, 1896
572,627	Bliss, W. L	Regulators	Dec. 8, 1896
565,324	Blumenberg, H	Aqueous bath, chemicals	Ang. 4, 1896
573,807	Boardman and Boardman	Cut-outs, mechanical	Dec. 22, 1896
578,673	Boetcher, A	Electromagnets	Mar. 9, 1897
563,442	Bogart, S. S	Railway	July 7, 1896
563,443	Bogart, S. S	Telephones, calls, step-by-step	July 7, 1896
578,442	Bogart, S. S	Railway signals	Mar. 9, 1897
569,538	Booth, A. C	Generation, systems of distribution	Oct. 13, 1896
567,959	Borchers, W	Batteries, gas	Sept. 22, 1896
573,176	Borel, F	Conductors	Dec. 15, 1896
581,327	Borradaile, L. L	Igniting devices	Apr. 27, 1897
573,257	Börreson, B. H	Railways, systems, overhead, trolleys	Dec. 15, 1896
566,652	Bosley, W. S	Lights, incandescent, special features	Aug. 25, 1896
579,124	Bossard, J	Aqueous bath, depolarizing and burnishing	Mar. 23, 1897
571,297	Bossert, W. F	Conductors, house-wiring	Nov. 10, 1896
579,036	Bossong, F. E	Telephones, switchboards	Mar. 16, 1897
584,848	Bostian, C. P	Lighting, mantles	Jnne 22, 1897
570,839	Bovet, A. de	Railways, teleph and towing	Nov. 3, 1896
575,388	Bowen, M. K	Conductors, connectors	Jan. 19, 1897
574,707	Bowman, L. G	Telephones, systems, automatic	Jan. 5, 1897
584,321	Bradford, E. M	Lights, sockets and keys	June 15, 1897
570,118	Bradley, C. S	Systems of distribution	Oct. 27, 1896
570,119	Bradley, C. S	Railways, electric locomotives	Oct. 27, 1896
577,231	Bradshaw, W. L	Telephones, systems, central	Feb. 16, 1897
580,678	Brady, T. H	Cut-outs, oscillating spring	Apr. 13, 1897
553,452	Brady, T. H	Cut-outs, mechanical, oscillating snap	June 1, 1897
566,889	Bram, J	Motors	Sept. 1, 1896
583,323	Bramwell, C. C	Lighting, systems, secondary-battery	May 25, 1897
563,254	Brandenburg, H	Railways, systems, conduit	July 7, 1896
565,102	Brandenburg, H	do	Aug. 4, 1896

No.	NAME.	CLASS.	DATE.
565,103	Braudenburg, H.	Railways, systems, conduit	Aug. 4, 1896
577,678	Brandt, P.	Galvanometers	Feb. 22, 1897
579,380	Branth, J. F. S.	Railways, systems, overhead, trolleys	Mar. 23, 1897
579,916	Brewer, H. J.	Batteries, vessels	Mar. 30, 1897
579,511	Briggar, J. S.	Motors, reciprocating	Mar. 23, 1897
571,524	Brill, J. A.	Railway rolling-stock, motors	Nov. 24, 1896
571,825	Brill and Brill	do	Nov. 24, 1896
580,519	Brinkerhoff, F. M.	Railway signals, track instruments	Apr. 13, 1897
570,424	Brinkman, S. G.	Motors	Oct. 27, 1896
577,912	Broius, S. G.	Railways, systems, conduit	Mar. 2, 1897
570,840	Brooks, M.	Telephones, systems, house	Nov. 3, 1896
578,542	Brooks, H. M.	Railways, systems, overhead, trolleys	Mar. 9, 1897
570,373	Browne, W. S.	Railways, systems	Oct. 27, 1896
563,553	Browne and Chaplin	Electrolysis, aqueous bath, chemicals	July 7, 1896
563,554	Browne and Chaplin	do	July 7, 1896
563,555	Browne and Chaplin	do	July 7, 1896
573,386	Brown, C. E.	Conductors, connectors	Dec. 15, 1896
581,263	Brown, H. P.	do	Apr. 27, 1897
583,208	Brown, G. J.	Igniting devices, manual	May 25, 1897
581,264	Brown, W. M.	Railways, sectional conductor, magnetic closers	Apr. 27, 1897
582,259	Brown, W. M.	Railways, systems, overhead, trolleys	May 11, 1897
583,324	Brown, W. M.	Railways, sectional conductor, magnetic closers	May 25, 1897
585,255	Brown, W. M.	do	June 29, 1897
573,387	Brown and Brown	Lights, incandescent, special features	Dec. 15, 1896
564,955	Brunswick and Johnson	Railways, systems, overhead, trolleys	July 28, 1896
566,709	Bryan, J.	Conductors, connectors	Aug. 25, 1896
582,262	Bryan, J.	Railways, trolley-operated track switches	May 11, 1897
574,301	Bryant, W. C.	Lights, incandescent	Dec. 29, 1896
582,036	Bryant, W. C.	Conductors, connectors	May 4, 1897
571,507	Buchanan, J. P.	Railway signals, sectional rail	Nov. 17, 1896
578,716	Buchtel, J.	Alarms	Mar. 16, 1897
579,633	Buckingham and Gardam	Telegraphy, automatic	Mar. 30, 1897
568,512	Buckingham, Germann, and Gardam	Telegraphy, perforating	Sept. 29, 1896
568,513	Buckingham and Germann	Telegraphy, printing, multiple-wheel	Sept. 29, 1896
568,514	Buckingham and Germann	Telegraphy, perforating	Sept. 29, 1896
568,515	Buckingham and Germann	do	Sept. 29, 1896
568,516	Buckingham, Gardam, and Germann	do	Sept. 29, 1896
572,354	Breckner, J. B.	Lights, arc, special features	Dec. 1, 1896
580,927	Buell, C. E.	Telegraphy, fire, automatic	Apr. 20, 1897
581,246	Bnell, C. E.	Telephones, systems, central	Apr. 20, 1897
567,077	Borchell, N. L.	Telephones, granular	Sept. 1, 1896
584,983	Bureau, A.	Lights, arc, gravity-feed, gear-clutch	June 22, 1897
571,036	Burger and McFall	Meters	Nov. 10, 1896
571,037	Burger and McFall	do	Nov. 10, 1896
577,233	Burger, N. H.	Medical and surgical, chairs and couches	Feb. 16, 1897
585,355	Burghardt and Rigg	Electrolysis, aqueous bath, ores	June 29, 1897
573,134	Burgher, C.	Telegraphy, circuit-closers, thermal	Dec. 15, 1896
575,077	Burgher, C.	Telegraphy, fire, automatic	Mar. 2, 1897
583,026	Burke, C. G.	Telegraphy, automatic	May 25, 1897
584,722	Burke, C. G.	Telegraphy, perforating	June 15, 1897
577,252	Burnet, E.	Batteries, vessels	Feb. 16, 1897
581,411	Burry, J.	Telegraphy, printing, multiple-wheel	Apr. 27, 1897
574,388	Butler, W. A.	Railways, systems, overhead, trolleys	Jan. 5, 1897
564,965	Buxton, F. E.	Connectors	Aug. 4, 1896
565,529	Caemmerer and Mayer	Magneto-electric, multipolar	Aug. 11, 1896
565,530	Caemmerer and Mayer	do	Aug. 11, 1896
576,721	Caffrey, W. G.	Railways, systems, overhead, trolleys	Feb. 9, 1897
566,442	Cahill, T.	Type-writing machines, electric	Aug. 25, 1896
580,035	Cahill, T.	Music, electric actions	Apr. 6, 1897
573,559	Callender, R.	Telephones, systems, automatic	Dec. 29, 1896
577,284	Camp, H. B.	Conductors, house-wiring	Feb. 16, 1897
575,210	Campbell, G. L.	Magneto-electric, multipolar	Jan. 12, 1897
576,394	Campbell, G. L.	Railways, systems, overhead, trolleys	Feb. 2, 1897
567,118	Canales, F. W.	do	Sept. 1, 1896
563,257	Carleton, T. L.	Cnt-outs, thermal, successive	July 7, 1896
583,326	Cary, J. H.	Steam valves, throttle	May 25, 1897
564,173	Carty, J. J.	Telephones, systems, multiple switchboard, test	July 14, 1896
568,740	Carson, G. J.	Lights, incandescent, special features	Oct. 6, 1896
568,741	Cassell, H. R.	Aqueous bath, ores	Oct. 6, 1896
569,173	Cassell, H. R.	Aqueous bath, chemicals	Oct. 13, 1896
567,186	Cassidy, P.	Railways, systems, overhead	Sept. 8, 1896
572,472	Castner, H. Y.	Aqueous bath, anodes	Dec. 1, 1896
566,285	Cazin, F. M. F.	Lights, incandescent	Aug. 18, 1896
582,342	Chaffin, E. L.	Aqueous bath, cathode	May 11, 1897

## ALPHABETICAL INDEX—ELECTRICITY.

No.	NAME.	CLASS.	DATE.
584,173	Chauce, A. B.	Annuociators, time	June 8, 1897
575,699	Chapin and Holloran	Motors, reciprocating	Jan. 26, 1897
581,658	Chapman, W. H.	Regulators, resistance	Apr. 27, 1897
575,025	Chapman, W. M.	Telegraphy, fire, repeaters	Jan. 12, 1897
577,526	Chapsal, F.	Railway-brakes, fluid-pressure	Feb. 23, 1897
584,853	Cbellis, E. W.	Magneto-electric, hand-machines	June 22, 1897
571,300	Chesney and Kelly	Systems of distribution	Nov. 10, 1896
570,825	Chester, D. A.	Lights, filaments and carbons	Nov. 3, 1896
573,441	Christopher, W. O.	Telephones, supports	Dec. 22, 1896
583,787	Christie, W.	Insulators	June 1, 1897
566,892	Chute, C. A.	Lights, sockets and keys	Sept. 1, 1896
585,507	Clark, A. J.	Cut-outs, hangers	June 29, 1897
582,269	Clark, E. P.	Magneto-electric, armatures, ring	May 11, 1897
576,551	Clark and Clark	Telephones, granular	Feb. 9, 1897
582,578	Clark, Ellacott, and Johnson	Telephones, systems, automatic	May 11, 1897
563,743	Clark, J. H.	Motors, hand-operating devices	July 14, 1896
573,809	Clark, J. H.	Motive-power, elevators	Dec. 22, 1896
579,790	Cohn and Martiu	Telephones, details	Mar. 30, 1897
566,843	Cole, F. W.	Bells	Sept. 1, 1896
570,454	Coleman, C.	Galvanometers	Nov. 3, 1896
570,906	Coleman, C.	Alarms, burglar	Nov. 10, 1896
565,839	Coleman, J. P.	Rail way signals, sectional rail	Aug. 11, 1896
566,499	Coleman, J. P.	Rail way signals	Aug. 25, 1896
571,107	Coleman, J. P.	do	Nov. 10, 1896
573,207	Coleman, J. P.	do	Dec. 15, 1896
573,962	Colgate, A. E.	Lights, arc, positive-feed, step gear-clutch	Dec. 29, 1896
580,929	Colgate, G. L.	Lighting, systems, hand-regulation	Apr. 20, 1897
577,186	Collins, G. G.	Aqueous bath, aluminum	Feb. 16, 1867
569,746	Collins, H. B.	Motors	Oct. 20, 1896
582,344	Cook, E. J.	Railways, conductor supports and insulators	May 11, 1897
573,645	Cooley, W. H.	Railways, sectional conductor, magnetic closers	Dec. 22, 1896
580,451	Conehar, J. W.	Aqueous bath, depolarizing and burnishing	Apr. 13, 1897
572,158	Connell, W.	Lighting, systems, display	Dec. 1, 1896
571,301	Conner, D. E.	Indicators, station	Nov. 10, 1896
565,155	Conner, MacMillau, and Fuller	Railway rolling-stock, locomotives, electric, geared	Aug. 4, 1896
579,317	Constain and Hansen	Electrolysis, aqueous bath	Mar. 23, 1897
563,911	Cooper, W.	Generation, magneto-electric, multipolar	July 14, 1896
566,376	Cooper, W.	Railways, conductor supports and insulators	Aug. 25, 1896
563,360	Cope, T. J.	Conductors, underground	July 7, 1896
583,405	Corbett, E. S.	Alarms, burglar	May 25, 1897
568,335	Cornell, C. W.	Telegraphy, fire	Sept. 29, 1896
582,159	Cottingham, W. H.	Lighting, mantles	May 11, 1897
563,749	Cottrell, W. C.	Railways, systems, overhead trolleys	July 14, 1896
568,430	Cowhig, J. J.	Telegraphy, fire	Sept. 29, 1896
583,219	Cowles, A. H.	Furnaces	May 25, 1897
583,250	Cowles, A. H.	do	May 25, 1897
566,298	Cox and Crowley	Telegraphy, automatic	Aug. 25, 1896
585,257	Cox, F. P.	Meters	June 29, 1897
585,258	Cox, F. P.	do	June 29, 1897
585,620	Cox, H. B.	Lighting, systems, secondary-battery	June 29, 1897
569,755	Cram, W. E.	Igniting devices, manual	Oct. 20, 1896
585,185	Craue, H. M.	Connectors	June 29, 1897
571,263	Crawford, T.	Railway rolling-stock, motors	Nov. 10, 1896
584,462	Creelman, A. L.	Telegraphy, circuits and systems	June 15, 1897
584,463	Creelman, A. L.	Cut-outs, electromagnetic	June 15, 1897
584,464	Creelman, A. L.	Telegraphy, relays and sonnders	June 15, 1897
584,465	Creelman, A. L.	Telegraphy, circuits and systems	June 15, 1897
584,466	Creelman, A. L.	do	June 15, 1897
573,332	Cronin, M.	Lights, incandescent, special features	Jan. 19, 1897
573,430	Crook, C. M.	Clocks	Dec. 15, 1896
574,669	Crook, C. M.	Horology, clocks	Jan. 5, 1897
578,976	Crook, C. M.	do	Mar. 16, 1897
568,298	Croskey and Locke	Conductors	Sept. 22, 1896
563,453	Crouse and Milgate	Magneto-electric, hand-machines	July 7, 1896
568,838	Crowley, R. O.	Lighting, systems, display	Oct. 6, 1896
568,475	Cruyt, W. J.	Horology, clocks, electric	Sept. 29, 1896
566,503	Culgan, J. P.	Railway signals, sectional rail	Aug. 25, 1896
571,109	Culgan, J. P.	Telegraphy, lightning-arresters	Nov. 10, 1896
565,671	Cummings, M. S.	Railways, track cleavers, removing weeds	Ang. 11, 1896
563,963	Curran, J.	Telephones, details	Aug. 18, 1896
581,340	Cuttent, E. B.	Magneto-electric, hand-machines	Apr. 27, 1897
585,511	Cuttler, H. H.	Motors, hand-operating devices	June 29, 1897
585,512	Cuttler, H. H.	do	June 29, 1897
578,004	Czarnickow, A.	Igniting devices, manual	Mar. 2, 1897
565,725	Dailey, J. B.	Railways, systems, overhead, trolleys	Aug. 11, 1896

No.	NAME.	CLASS.	DATE.
566,064	Damon, G. B	Conductors	Aug. 18, 1896
581,415	Damon and Pearson	Railway-brakes, fluid-pressure	Apr. 27, 1897
566,894	Danckwardt, P	Mills, amalgamators, electric	Sept. 1, 1896
583,672	Daniels, A. L	Conductors, house-wiring	June 1, 1897
564,243	Daniels, F. H	Connectors	July 21, 1896
565,672	Daniels, F. H	Conductors, connectors	Ang. 11, 1896
582,849	Daniels, F. H	do	May 18, 1897
584,577	Danielson, E	Regulators, alternating	June 15, 1897
569,325	Dankwardt, P	Aqueous bath, fused bath	Oct. 13, 1896
565,136	Date, Heffron, Scranton, and Sender	Stoves and furnaces, heaters, electric	Aug. 4, 1896
564,683	Daves, W	Railway signals, sectional rail	July 28, 1896
568,668	Davey, F	Bells	Sept. 29, 1896
579,473	Davidson and Armstrong	Annunciators, drop system	Mar. 23, 1897
580,931	Davidson and Armstrong	do	Apr. 20, 1897
579,699	Davis, A. W. S	Telephones, granular	Mar. 30, 1897
568,523	Davis, C. E	Railways, systems, overhead	Sept. 29, 1896
570,911	Davis, G. H	Music, electric actions	Nov. 10, 1896
576,342	Davis, G. H	do	Feb. 2, 1897
569,817	Davis, H. P	Lights, arc, gravity-feed, gear-clutch	Oct. 20, 1896
574,885	Davis, H. P	Motors, hand-operating devices	Jan. 12, 1897
580,380	Davis, H. P	Railways, systems, overhead	Apr. 13, 1897
580,381	Davis, H. P	Railways, conductor supports and insulators	Apr. 13, 1897
582,114	Davis, H. P	Motors, hand-operating devices	May 4, 1897
582,115	Davis, H. P	do	May 4, 1897
584,556	Davis, H. P	Motors, hand-operating devices	Junc 22, 1897
568,840	Davis, L. W	Telephones, switchboards	Oct. 6, 1896
580,256	Davy, W. J	Lights, arc, gravity-feed, gear-clutch	Apr. 6, 1897
574,889	Dawson, J. W	Igiting devices, manual	Jan. 12, 1897
579,864	Deake and Moore	Conductors, conduit	Mar. 30, 1897
564,328	Dean, W. W	Telephones, systems, central	July 21, 1896
567,223	Dean, W. W	Conductors, rheostats	Sept. 8, 1896
573,575	Dean, W. W	Telephones, systems, central	Dec. 22, 1896
573,576	Dean, W. W	do	Dec. 22, 1896
576,040	Dean, W. W	Cut-outs, thermal	Jan. 26, 1897
577,101	Dean, W. W	Telephones, systems, central	Feb. 16, 1897
577,102	Dean, W. W	Telephones, calls	Feb. 16, 1897
581,455	Dean, W. W	Cut-outs, thermal	Apr. 27, 1897
581,456	Dean, W. W	do	Apr. 27, 1897
582,461	Dean, W. W	Annunciators	May 11, 1897
575,419	Delaney, P. B	Telegraphy, automatic	Jan. 19, 1897
585,026	Delery, R	Insulators	June 32, 1897
584,050	Deminger, H	Purifying liquids, alcohol	June 8, 1897
573,767	Denayrouze, L	Regulators	Dec. 22, 1896
582,901	Dennis, C. W	Telephones, details	May 18, 1897
581,540	Dennis, J	Lighting, systems, display	Apr. 27, 1897
565,673	Dennis, W. L	Telegraphy, fire, automatic	Ang. 11, 1896
576,810	DeRycke, J. J. J.	Conductors, house-wiring	Feb. 9, 1897
575,826	Denther, J. A	Metalurgy, furnaces	Jan. 26, 1897
582,721	Deuther, J. A	Medical and surgical, electrodes	May 18, 1897
566,564	Dewey, M. W	Stoves and furnaces, heaters, electric	Aug. 25, 1896
582,273	De Witt, B	Clocks	May 11, 1897
564,054	De Witt and Elliott	Railways, sectional conductor, mechanical closers	July 14, 1896
563,263	Diehl, A. S	Conductors	July 7, 1896
563,262	Dickerson, E. N	Batteries, thermal	July 7, 1896
565,727	Dickerson, E. N	Lighting, systems, secondary-battery	Aug. 11, 1896
581,104	Dickerson, E. N	Batteries, secondary	Apr. 20, 1897
582,462	Dickerson, E. N	Conductors, connectors	May 11, 1897
569,618	Dickerson, M	Railways, systems, conduit	Oct. 20, 1896
563,575	Dinkey, A. C	Motors, hand-operating devices	July 7, 1896
570,009	Dinkey, A. C	do	Oct. 27, 1896
575,053	Dion, L	Railways, sectional condnector, magnetic closers	Jan. 12, 1897
575,054	Dion, L	do	Jan. 12, 1897
570,700	Dixon, T. B	Railway signals, sectional rail	Nov. 3, 1896
571,472	Dixon, T. B	do	Nov. 17, 1896
573,398	Dobrick, A. C	Lights, arc, gravity-feed, pivot-dog clutch	Dec. 15, 1896
576,095	Doe, W. S	Batteries, two-fluid, zinc	Feb. 2, 1897
577,159	Dolley, Hawkins, and Lightfoot	Lights, incandescent	Feb. 16, 1897
571,994	Donahue and Hausman	Railways, systems, overhead, trolleys	Nov. 24, 1896
569,551	Donavand, J. E	Railway signals, sectional rail	Oct. 13, 1896
567,586	Dorman, G. E	Magneto-electric, bipolar	Sept. 15, 1896
570,914	Dorman, G. E	do	Nov. 10, 1896
585,379	Dorman, G. E	Motors, alternating, starters	June 29, 1897
580,680	Doscher, J. H	Telegraphy, circuit-closers, lock	Apr. 13, 1897
578,139	Doty and MacKnight	Railways, switches, automatic	Mar. 2, 1897
569,561	Dowden, C. H	Telegraphy, circuit-closers, burglar	Oct. 30, 1896

NO.	NAME.	CLASS.	DATE.
569,373	Dowues, L. W.	Cut-outs, thermal	Oct. 13, 1896
569,960	Drake, C. C.	Cut-outs, electromagnetic	Oct. 20, 1896
565,202	Drake, F.	Telegraphy, fire, automatic	Aug. 4, 1896
568,526	Drawbaugh, D.	Telephones, granular	Sept. 29, 1896
573,966	Duncan, R.	Conductors, insulators	Dec. 29, 1896
573,078	Duncan, T.	Meters	Dec. 15, 1896
573,079	Duncan, T.	do	Dec. 15, 1896
573,080	Duncan, T.	do	Dec. 15, 1896
580,384	Duncan, T.	Galvanometers	Apr. 13, 1897
582,522	Dunderdale, C. F.	Telephones, magnetic	May 11, 1897
585,560	Dunderdale, C. F.	Telephones, switches	June 29, 1897
585,380	Dunham, W. C.	Railways, systems, overhead, trolleys	June 29, 1897
568,527	Dunn, D. M.	Telegraphy, relays and sounders	Sept. 29, 1896
567,023	Dunn, D. W.	Regulators, resistance	Sept. 1, 1896
578,394	Dunn and Reagan	Lights, incandescent, special features	Mar. 9, 1897
566,596	Dupper, A.	Telephones, calls, step-by-step	Sept. 1, 1896
567,864	Du Pout, T. C.	Railway rolling-stock, electric-motor, rigid-frame	Sept. 15, 1896
583,142	Duque and Cosgrove	Telephones, supports	May 25, 1897
565,968	Durant, Dean, and Childs	Telephones, systems, divided central	Aug. 18, 1896
574,527	Duryea and Thompson	Railways, systems, overhead, trolleys	Jau. 5, 1897
582,464	Duseberg, C. C.	Railway rolling-stock, motors, bogies	May 11, 1897
580,551	Dye, L. E.	Telephones, magnetic	Apr. 20, 1897
573,581	Dyer, I. T.	Motors, reciprocating	Dec. 22, 1896
567,306	Dyer, R. N.	Railways, systems, overhead, trolleys	Sept. 8, 1896
567,307	Dyer, R. N.	do	Sept. 8, 1896
580,553	Eagan, C. E.	Telephones, systems, central	Apr. 20, 1897
581,199	Easton, C. F.	Lights, incandescent, special features	Apr. 20, 1897
570,663	Easton, J. W.	Regulators, resistance	Nov. 3, 1896
581,815	Eaton, C. F.	Telegraphy, printing, wheel	May 4, 1897
582,157	Eaton, C. F.	Telegraphy, printing	May 4, 1897
577,730	Eberhardt, L. A.	Games and toys, toys	Feb. 23, 1897
574,025	Edgecomb, H. A.	Motive-power, dental instruments	Dec. 29, 1896
569,748	Edmunds, H.	Conductors	Oct. 20, 1896
564,558	Eickemeyer, R.	Regulators	July 21, 1896
564,559	Eickemeyer, R.	do	July 21, 1896
565,407	Eickemeyer, R.	Railways, systems, battery	Ang. 4, 1896
567,119	Eickemeyer, R.	Motors, alternating	Sept. 1, 1896
583,987	Eikstrom, A.	Telegraphy, lightning-arresters	Jnne 8, 1897
584,338	Eldred, H. H.	Magneto-electric, hand-machines	June 15, 1897
571,084	Eldridge, Clarke, and Wambangh	Electrolysis, synthesis	Nov. 10, 1896
583,618	Eldridge, Wright, and Clark	Metallurgy, furnaces	June 1, 1897
585,091	Elfeldt, C. R.	Lighting, mantles	June 22, 1897
580,663	Elliott, E.	Lighting, systems	Apr. 13, 1897
580,598	Elliott, W. S.	Railway rolling-stock, locomotives	Apr. 13, 1897
561,743	Elliott and Eskholme	Magneto-electric, multipolar	July 28, 1896
564,174	Elwell, R. T.	Conductors, house-wiring	July 14, 1896
583,173	Emery, C. E.	Regulators, compounding-machinies	May 25, 1897
585,367	Euery, C. E.	Regulators	Jnne 29, 1897
569,576	Eumett, G.	Cut-outs, mechanical	Oct. 13, 1896
568,843	Eugelhardt and Nettel	Aqueous bath, ores	Oct. 6, 1896
581,544	Enholm and Beck	Telegraphy, circuit-closers, thermal	Apr. 27, 1897
579,361	Epstein, L.	Batteries, secondary	Mar. 23, 1897
571,517	Erb, L. M.	Railways, systems, overhead, trolleys	Nov. 17, 1896
573,082	Erben, C.	Meters	Dec. 15, 1896
568,971	Erhardt, W.	Cut-outs, thermal, successive	Oct. 6, 1896
566,507	Erickson, F. W.	Conductors, house-wiring	Aug. 25, 1896
578,006	Eriesson, L. M.	Magneto-electric, hand-machines	Mar. 2, 1897
571,946	Eschwei, C.	Lights, arc, gravity-feed, clutch	Nov. 24, 1896
579,707	Essick, S. V.	Batteries, one-fluid, zinc, sulphates	Mar. 30, 1897
563,917	Evershied, S.	Galvanometers	July 14, 1896
575,059	Ewbank, H. B.	Bells	Jan. 12, 1897
581,706	Eyanson, G. T.	Cut-outs, mechanical, oscillating snap	May 4, 1897
571,997	Fall, A. W.	Games and toys, toys	Nov. 24, 1896
583,303	Fargo, W. H.	Igniting devices, manual	May 21, 1897
578,867	Farley, H. N.	Telegraphy, circuits and systems	Mar. 16, 1897
567,338	Farmer, J. R.	Railway signals, block	Sept. 8, 1896
564,369	Farnham, E. W.	Railways, telpher and towing	July 21, 1896
572,108	Farrington, De W. C.	Telephones, details	Dec. 1, 1896
567,227	Faure and Mac Hafie	Lights, arc, positive-feed, step gear-clutch	Sept. 8, 1896
582,907	Feeary, F. T.	Railways, conductor supports and insulators	May 18, 1897
577,128	Feuerstein, P. G.	Annunciators, time	Feb. 16, 1897
571,351	Field, S. D.	Telegraphy, relays and sounders	Nov. 17, 1896
575,394	Field, S. D.	Telephones, magnetic	Jan. 19, 1897
576,103	Fielding, P. H.	Lights, arc, special features	Feb. 2, 1897
566,673	Fielding and Walker	Aqueous bath, apparatus	Aug. 25, 1896
574,896	Fieske and Smith	Motors, hand-operating devices	Jan. 12, 1897

No.	NAME.	CLASS.	DATE.
575,341	Finkbeiner, E.	Lights, arc, gravity-feed, double dog-clutch	Jan. 19, 1897
575,777	Fish, W. C.	Meters	Jan. 26, 1897
565,971	Fisher, H. J.	Lights, arc, gravity-feed, gear-clutch	Aug. 18, 1896
564,984	Fisk, C. H.	Railways, conductor supports and insulators	Aug. 4, 1896
583,039	Fisk, P. H.	Telephones, calls	May 25, 1897
584,341	Fiske, B. A.	Motors, transmission of power, direct	June 25, 1897
579,051	Fiske, J. P. B.	Motors	Mar. 16, 1897
573,142	Flanegin, F. A.	Stoves and furnaces, heaters	Dec. 15, 1896
564,371	Fleury, C. M.	Telephones, details	July 21, 1896
584,867	Foote, T. M.	Lights, filaments and carbons	June 22, 1897
572,748	Fordyce, E. A.	Telephones, switchboards	Dec. 8, 1896
571,435	Forrey, G. J.	Railways, sectional conductor, mechanical closers.	Nov. 17, 1896
581,023	Foster, S. L.	Railways, conductor supports and insulators	Apr. 20, 1897
579,227	Fowler, F. L.	Lights, incandescent	Mar. 23, 1897
585,308	Fraley, G. B.	Heaters	June 29, 1897
585,309	Fraley, G. B.	do	June 29, 1897
585,310	Fraley, G. B.	do	June 29, 1897
585,311	Fraley, G. B.	do	June 29, 1897
571,305	Francis, J. C.	Magneto-electric, hand-machines	Nov. 10, 1896
564,480	Francis, G. T.	Motive-power, elevators	July 21, 1896
582,129	Franke, A.	Galvanometers	May 4, 1897
583,644	Fraser, J. R.	Alarms, burglar	June 1, 1897
567,643	Frear, H. P.	Indicators, station	Sept. 15, 1896
575,805	Freeman and Slater	Railway signals, sectional rail	Jan. 26, 1897
569,866	Freeman, W. E.	Motors	Oct. 20, 1896
578,981	Freeman, W. K.	Telegraphy, lightning-arresters	Mar. 16, 1897
575,601	French, W. F.	Railway signals, track instruments	Jau. 19, 1897
575,767	Frölich, O.	Galvauometers	Jan. 26, 1897
563,474	Frost, J. W.	Telegraphy, fire alarms and extinguishers	July 7, 1896
563,475	Frost, J. W.	Telegraphy, circuit-closers, thermal	July 7, 1896
563,526	Frost, J. W.	Telegraphy, fire, automatic	July 7, 1896
566,161	Fursteman, M. C.	Railways, systems, overhead, trolleys	Aug. 18, 1896
566,287	Gahlan, E.	Lights, incandescent	Aug. 18, 1896
585,267	Gairing, A. J.	Railways, systems, overhead, trolleys	June 29, 1897
567,971	Galbraith, G. J.	Igniting devices, manual	Sept. 22, 1896
565,138	Gale, H. B.	Motors, transmission of power, direct	Ang. 4, 1896
565,139	Gale, H. B.	Regulators, engine-control	Ang. 4, 1896
577,741	Gale, H. N.	Railways, systems, overhead, trolleys	Feb. 23, 1897
568,606	Garing, A.	Railway signals, block systems	Sept. 29, 1896
563,289	Garl, M.	Annunciators, drop systems	July 7, 1896
565,385	Garl, M.	Telephones, systems, intermediate sub-station.	Ang. 4, 1896
582,913	Garl, M.	do	May 18, 1897
584,519	Garl, M.	Telephones, systems, central	June 22, 1897
584,155	Gartland, C. C.	Regulators, resistance	June 8, 1897
569,018	Gartner, A.	Telephones, details	Oct. 6, 1896
569,752	Gartner, A.	Conductors, conuectors	Oct. 20, 1896
569,753	Gartner, A.	do	Oct. 20, 1896
570,204	Gartner, A.	Telephones, supports	Oct. 27, 1896
584,632	Gast, G. H.	Cut-outs, thermal, successive	June 15, 1897
574,532	Gee, H. L.	Railway rolling-stock, motors	Jan. 5, 1897
580,973	Geisenhenner, C. A.	Railway signals	Apr. 20, 1897
577,130	Geisenhöner, H.	Maguetto-electric, armatures, ring	Feb. 16, 1897
583,991	Geisenhöner, H.	Magneto-electric, armatures, drum	June 8, 1897
584,268	Gent, Stavely, and Parsons.	Telephones, granular	June 22, 1897
565,975	George, J. H.	Aqueous bath, apparatus	Ang. 18, 1896
583,255	Georges, E. A.	Aqueous bath, cathodes	May 25, 1897
575,641	Gerard and Lawrence	Conductors	Jan. 19, 1897
584,128	Gerry, J. H.	Clocks	June 8, 1897
569,634	Gharky, W. D.	Lighting, systems, safety	Oct. 20, 1896
569,754	Gibboney, J. W.	Magneto-electric, bipolar	Oct. 20, 1896
569,709	Gibbs, G.	Railway signals, sectional rail	Oct. 20, 1896
570,089	Gibbs, G.	do	Oct. 27, 1896
578,695	Gibbs, J. S.	Cut-outs, mechanical	Mar. 9, 1897
572,341	Gibbs, J. W.	Medical and surgical, electrode	Dec. 1, 1896
583,043	Gibbs, J. W.	Medical and surgical, soles	May 25, 1897
568,608	Gibbs, W. A.	Alarms	Sept. 29, 1896
574,320	Giesler, A.	Regulators, engine-control	Dec. 29, 1896
579,975	Gillette, W.	Magneto-electric, hand-machines	Apr. 6, 1897
576,813	Gilliland, J. F.	Telephones, granular	Feb. 9, 1897
565,739	Gilman, W. H.	Music, electric actions	Ang. 11, 1896
565,344	Gilmore, H.	Connectors	Aug. 4, 1896
569,099	Girod, F. E.	Clocks, electric	Oct. 6, 1896
571,655	Girard and Street.	Metallurgy, furnaces	Nov. 17, 1896
568,346	Given, J. L.	Telephones, details	Sept. 29, 1896
583,304	Goetz, A. C.	Indicators, station	May 25, 1897

## ALPHABETICAL INDEX—ELECTRICITY.

No.	NAME.	CLASS.	DATE.
578,633	Gooch, F. A	Electrolysis, fused bath	Mar. 9, 1897
572,539	Goodyear, C	Lights, arc, positive-feed, gear-clutch	Dec. 8, 1896
565,740	Goold, F. D' A	Lighting, systems, secondary-battery	Aug. 11, 1896
565,741	Goold, F. D' A	do	Aug. 11, 1896
569,376	Gordon, A. J	Telephones, supports	Oct. 13, 1896
584,871	Gordon, A. J	do	June 22, 1897
570,013	Gordon, R. W	Batteries, secondary	Oct. 27, 1896
570,014	Gordon, R. W	do	Oct. 27, 1896
580,523	Gordon, R. W	Batteries, one-fluid, zinc, oxide	Apr. 13, 1897
577,949	Gordon and Weir	Railway signals	Mar. 2, 1897
577,950	Gorn, H. A	Motors, hand-operating devices	Mar. 2, 1897
569,331	Gorton, A	Railways, sectional conductor, mechanical closers	Oct. 13, 1896
564,745	Gould, C. C	Telephones, systems, central	July 28, 1896
564,746	Gould, C. C	Annunciators	July 28, 1896
574,901	Gould, C. C	Telephones, multiple electrode	Jan. 12, 1897
584,737	Gould, C. C	Telephones, granular	Jnne 15, 1897
565,410	Gould, J. D	Telegraphy, circuit-closers, thermal	Aug. 4, 1896
572,981	Gouvin, F. L	Telephones, magnetic	Dec. 15, 1896
563,920	Graham, A	Telephones, systems, house	July 14, 1896
579,676	Graham, F. A	Telegraphy, printing, wheel	Mar. 30, 1897
570,473	Graham, J. H.	Railway rolling-stock, motors	Nov. 3, 1896
567,540	Grassler, W. F	Railways, systems, condit	Sept. 8, 1896
585,094	Gray, F	Alarms	June 22, 1897
576,053	Gray, L. A	Medical and surgical, body-wear	Jan. 26, 1897
573,647	Green, C. M	Systems of distribution	Dec. 22, 1896
571,043	Green, G. R	Motors	Nov. 10, 1896
576,266	Green, H	Lighting, systems, display	Feh. 2, 1897
576,267	Green, H	do	Feh. 2, 1897
567,132	Green, R. P	Telephones, granular	Sept. 8, 1896
582,200	Green, R. P	Telephones	May 11, 1897
570,165	Greenfield, E. T	Conductors	Oct. 27, 1896
570,166	Greenfield, E. T	do	Oct. 27, 1896
570,167	Greenfield, E. T	do	Oct. 27, 1896
570,168	Greenfield, E. T	do	Oct. 27, 1896
570,169	Greenfield, E. T	do	Oct. 27, 1896
570,170	Greenfield, E. T	do	Oct. 27, 1896
568,675	Greville-Williams, R	Telegraphy, automatic	Sept. 29, 1896
563,922	Gridley, W. D	Lights, incandescent, special feattres	July 14, 1896
581,281	Griffin, J. D	Railways, systems, condit	Apr. 27, 1896
572,111	Grifiths, J. A	Railway rolling-stock, locomotives	Dec. 1, 1897
574,322	Grindle, G. A	Batteries, secondary	Dec. 29, 1896
582,910	Groshaus, J. J	Conductors, conduits	May 18, 1897
575,346	Grunow, W., Jr	Railways, collapsible-tube conductor	Jan. 19, 1897
576,268	Grunow, W., Jr	Railways, sectional conductor, meehanical closers	Feb. 2, 1897
567,975	Grunow, W., Jr	do	Sept. 22, 1896
579,576	Grunow, W., Jr	do	Mar. 30, 1897
563,715	Grutting, T	Heaters, electric	July 7, 1896
578,233	Guentel, A	Lights, arc, gravity-feed, gear-clutch	Mar. 2, 1897
568,756	Guillaume, M	Conductors	Oct. 6, 1896
581,715	Guillaume, M	do	May 4, 1897
563,273	Guillaume, T	do	July 7, 1896
563,274	Guillaume, T	do	July 7, 1896
571,760	Guillaume, T	do	Nov. 24, 1896
577,427	Gutmann, L	Motors, alternating	Feh. 23, 1897
577,480	Gutmann, L	Inductormms, transformers, stationary	Feb. 23, 1897
577,742	Gutmann, L	do	Feb. 23, 1897
566,573	Hacking and Brand	Meters	Ang. 25, 1896
574,536	Hadaway, W. S	Stoves and furnaces, heaters	Jan. 5, 1897
574,587	Hadaway, W. S	do	Jan. 5, 1897
579,324	Hadaway, W. S	Metallurgy, furnaces	Mar. 23, 1897
567,976	Hadaway, W. S., Jr	Stoves and furnaces, heaters, electric	Sept. 22, 1896
567,745	Haerer and Gikeheiter	Magneto-electric, communicator and collector	Sept. 15, 1896
567,746	Haerer and Gikeheiter	Magneto-electric, armatures, ring	Sept. 15, 1896
578,236	Hall, W. P	Railway signals	Mar. 2, 1897
563,482	Haley, P	Railways, conductor supports and insulators	July 7, 1896
577,553	Halsey, L. M	Railways, systems, overhead, trolleys	Mar. 2, 1897
568,726	Hamerschlag, A. A	Lighting, systems, display	Sept. 29, 1896
578,570	Hammacher, S	Batteries, secondary	Mar. 16, 1897
566,313	Hammer, E. G	Horology, clocks, electric	Aug. 25, 1896
570,475	Hance, J. A	Railways, systems, overhead, trolleys	Nov. 3, 1896
569,824	Hand, W. M	Magneto-electric, brushes and holders	Oct. 20, 1896
567,133	Handshy, H. M	Railways, systems, overhead	Sept. 8, 1896
581,718	Handshy, H. M	Igniting devices, manual	May 4, 1897
571,363	Handy, W. W	Regulators, engine-control	Nov. 17, 1896

No.	NAME.	CLASS.	DATE.
563,924	Hansel, C	Signaling, railway	July 14, 1896
567,784	Hanson, A	Railways, systems, overhead	Sept. 15, 1896
11,612	Hanson and Chapman	Railways, conductor supports and insulators	June 22, 1897
575,887	Hardegen, P	Telephones, granular	Jan. 26, 1897
571,591	Hargreaves and Bird	Aqueous bath, chemicals	Nov. 17, 1896
579,431	Harrington, W. E	Cut-outs, electromagnets	Mar. 23, 1897
580,276	Harrington, W. E	Electromagnets	Apr. 6, 1897
580,277	Harrington, W. E	Cut-outs, electromagnetic	Apr. 6, 1897
581,460	Harrington, W. E	Cut-outs, thermal	Apr. 27, 1897
585,030	Harrington, W. E	Cut-outs, electromagnetic	June 22, 1897
583,902	Harrington and Somers	Connectors	June 8, 1897
583,903	Harrington and Somers	do	June 8, 1897
583,900	Harris, J	Meters	June 8, 1897
11,158	Harris, J	do	Feb. 2, 1897
573,874	Harris, S	Motors, hand-operating devices	Dec. 29, 1896
581,283	Harris, V. M.	Batteries, secondary	Apr. 27, 1897
563,374	Harris and Harris	Railway, cab, sectional rail	July 7, 1896
574,417	Harris and Holland	Batteries, secondary	Jan. 5, 1897
571,162	Harrison, E. M.	Telephones, switches	Nov. 10, 1896
577,134	Harrison, J. H.	Electrolysis, purifying liquids, water	Feb. 16, 1897
571,190	Harrison and Harrison	Telephones, magnetic	Nov. 10, 1896
569,332	Hart, G. W.	Cut-outs, mechanical, rotary	Oct. 13, 1896
564,994	Hart, H. W.	Conductors, underground	Aug. 4, 1896
584,352	Harter, W. H.	Telephones, calls, reed	June 15, 1897
579,267	Harthan, C. E.	Lights, arc, special features	Mar. 23, 1897
579,268	Harthan, C. E.	Cut-outs, mechanical, oscillating snap	Mar. 23, 1897
583,305	Haskins, J. T.	Bells	May 25, 1897
578,925	Hastings and Flaherty	Music, organ, actions, electropneumatic	Mar. 16, 1897
585,472	Hatch, G. E.	Batteries, secondary	June 29, 1897
585,473	Hatch, G. E.	do	June 29, 1897
569,101	Hauerwas, E. A.	Railway-brakes, magnetic shoes	Oct. 6, 1896
569,713	Hang, H.	Conductors, connectors	Oct. 20, 1896
563,960	Hawes and Hawes	Telegraphy, circuit-closers, lock	July 14, 1896
572,421	Hawkes, W.	Conductors, rheostats	Dec. 1, 1896
575,235	Hawkes, W.	do	Jan. 12, 1897
573,088	Hawkins, F. H.	Lighting, systems, display	Dec. 15, 1896
579,872	Haycraft, J. H.	Aqueous bath, ores	Mar. 30, 1897
567,899	Hayn, F. M. N. E.	Alarms, burglar	Sept. 15, 1896
577,920	Heckard and Ogden	Telephones, calls	Mar. 2, 1897
578,402	Heckard and Ogden	Railway signals	Mar. 9, 1897
583,622	Heedt, P. M.	Systems of distribution	June 1, 1897
581,204	Hefty, B.	Motors, reciprocating	Apr. 20, 1897
554,356	Hegner, I. H.	Lights, arc, gravity-feed, gear-clutch	June 15, 1897
575,065	Henquin, N.	Railway signals	Jan. 12, 1897
584,936	Henry, I. W.	Conductors	June 22, 1897
569,827	Henry, J. C.	Railways, systems, overhead	Oct. 20, 1896
564,195	Henry, J. C.	Railway-brakes, electric magnetic clutch	July 21, 1896
567,472	Henszey, W. P.	Railway rolling-stock, motors, bogies	Sept. 8, 1896
567,714	Herdman, F. E.	Regulators, resistance	Sept. 15, 1896
568,566	Herdman, F. E.	Motors, hand-operating devices	Sept. 29, 1896
568,567	Herdman, F. E.	Motive-power, elevators	Sept. 29, 1896
568,568	Herdman, F. E.	do	Sept. 29, 1896
568,569	Herdman, F. E.	do	Sept. 29, 1896
568,570	Herdman, F. E.	do	Sept. 29, 1896
568,571	Herdman, F. E.	do	Sept. 29, 1896
575,645	Hermite, E.	Electrolysis, purifying liquids	Jau. 19, 1897
570,172	Herrick, A. B.	Cut-outs, mechanical, oscillating snap	Oct. 27, 1896
573,221	Herzog and Wheeler	Telegraphy, fire, variable signal, dial	Dec. 15, 1896
573,591	Herzog and Wheeler	Telegraphy, printing	Dec. 22, 1896
573,592	Herzog and Wheeler	Annunciators	Dec. 22, 1896
574,903	Hessberger, J.	Meters	Jan. 12, 1897
567,474	Hews, J. E.	Railways, systems, overhead, trolleys	Sept. 8, 1896
572,636	Hewes, J. E.	Metallurgy, furnaces	Dec. 8, 1896
567,137	Hewlett, E. M.	Telegraphy, lightning-arresters, magnetic	Sept. 8, 1896
573,146	Hewlett, E. M.	Railways, sectional conductor, magnetic closers	Dec. 15, 1896
583,997	Hewlett, E. M.	Railways, general	June 8, 1897
566,579	Heureux and Faneuf	Railway rolling-stock, locomotives, electric	Aug. 25, 1896
571,119	Hibbard, W. W.	Telegraphy, repeaters	Nov. 10, 1896
571,441	Hibbard, W. H.	Telegraphy, fire	Nov. 17, 1896
566,860	Hicks, T. H.	Regulators	Sept. 1, 1896
568,947	Hicks, T. H.	Motors, reciprocating	Oct. 6, 1896
579,059	Hicks, T. H.	Regulators, reducing sparks	Mar. 16, 1897
580,490	Hicks, T. H.	Regulators, commutating-machines	Apr. 13, 1897
564,485	Hicks, O. H.	Alarms, barokinetic	July 21, 1896
570,852	Higgins, F. W. H.	Telegraphy, printing, multiple wheel	Nov. 3, 1896
571,948	Hildburgh, L. W.	Telegraphy, duplex	Nov. 24, 1896

No.	NAME.	CLASS.	DATE.
578,333	Hilgeman, H. B.	Conductors, conduits	Mar. 9, 1897
572,810	Hill, M. F.	Telephones, systems, divided central	Dec. 8, 1896
571,120	Hinckley, H. D.	Railways, systems, overhead, trolleys	Nov. 10, 1896
564,196	Hinkly, E. A.	Telephones, multiple-electrode	July 21, 1896
581,160	Hirshing, H.	Aqueous bath, ores	Apr. 20, 1897
583,575	Hirt, L. J.	Railways, systems, conduit	June 1, 1897
567,237	Hobart, H. M.	Inducto-riums, transformers, stationary	Sept. 8, 1896
582,918	Hobbs, H. E.	Music, organ, actions, electropneumatic	May 18, 1897
579,482	Hobbs, J. D.	Telegraphy, fire	Mar. 23, 1897
585,359	Hoeffuer, L.	Batteries, secondary	June 29, 1897
582,862	Hoff, C.	Cut-outs, hangers	May 18, 1897
574,994	Hoffman, B.	Telegraphy, printing, multiple-wheel	Jan. 12, 1897
565,985	Hoffman, J.	Railways, sectional conductor, magnetic closers	Aug. 18, 1896
		do	May 25, 1897
583,178	Hoffman, J. H.	Lighting, systems, automatic-regulation	Sept. 22, 1896
567,982	Hoffmann, E. W. G. C.	Conductors, rheostats	Dec. 1, 1896
572,507	Hogan, J. J.	Railways, systems, overhead, trolleys	Mar. 2, 1897
577,921	Holahan, T.	Bells	Jan. 12, 1897
575,156	Holdsworth and Dodsworth	Lighting, systems, display	Feb. 16, 1897
577,033	Holland, C.	Motive-power, dental instruments	Oct. 13, 1896
569,380	Hollingsworth, M. W.	Telephones, systems	Mar. 16, 1897
578,992	Holman, S. W.	Batteries, two-fluid, zinc, nitrates	Dec. 8, 1896
572,754	Holmes and Heath	Railways, systems, overhead, trolleys	Oct. 20, 1896
569,756	Holz, O.	Railway rolling-stock, locomotives	Sept. 29, 1896
568,682	Honey, A. A.	Lights, arc, gravity-feed, gear-clutch	Jan. 12, 1897
574,905	Hood, R. O.	Meters	Mar. 30, 1897
579,582	Hookman, G.	Lights, arc, positive-feed, gear-clutch	Dec. 22, 1896
573,464	Hopkins, E. P.	Conductors, insulators	Jan. 26, 1897
575,952	Hoover, F.	Alarms, barokinetic	May 18, 1897
582,742	Horan, J. J.	Railways, sectional conductors, mechanical closers	Aug. 25, 1896
566,714	Hornig, J. L.	Cut-outs, mechanical, oscillating spring	Sept. 1, 1896
566,760	Hornig, J. L.	Motors	Mar. 16, 1897
579,062	Horry, W. S.	Galvanometers	Mar. 23, 1897
579,344	Houston and Kenuelly	Telephones, calls	Dec. 29, 1896
574,245	Houts and Nilson	Telephones, systems, house	Sept. 1, 1896
566,762	Hovey, E. G.	Lights, incandescent, special features	Sept. 29, 1896
568,573	Howe, E. C.	Railway rolling-stock, motor	Feb. 23, 1897
577,481	Hubbard, M. G., Jr.	Lights, sockets and keys	Aug. 11, 1896
565,541	Hubbell, H.	Batteries, secondary	Aug. 4, 1896
565,140	Hübner, G.	Motors, hand-operating, devices	Apr. 27, 1897
581,557	Huff, S. W.	Railways, sectional conductor, traveling closers	Aug. 25, 1896
566,397	Hull, W. S.	Meters	Oct. 27, 1896
570,019	Hummel, G.	Metallurgy, furnaces	Jau. 12, 1897
575,115	Hunt, A. E.	Electrolysis, fused bath	May 18, 1897
582,923	Hunt, A. E.	Telegraphy, circuit-closers, thermal	Mar. 23, 1897
579,393	Hunnt, L.	Cut-outs, mechanical, oscillating snap	July 21, 1896
564,283	Hunt, J. T.	Railways, systems, conduit	June 22, 1897
584,873	Hunter, F. W.	Railways, systems, overhead, trolleys	Sept. 1, 1896
566,984	Hunter, R. M.	Galvanometers	Nov. 3, 1896
570,481	Hunter, R. M.	Railways, systems, conduit	Nov. 24, 1896
571,832	Hunter, R. M.	Railways, switches	Dec. 1, 1896
572,169	Hunter, R. M.	Railways, locomotives	Dec. 8, 1896
572,706	Hunter, R. M.	Motive-power, elevators	Jan. 19, 1897
575,479	Hunter, R. M.	Regulators, counter electromotive force	Mar. 16, 1897
579,063	Hunter, R. M.	Systems of distribution	Apr. 27, 1897
581,644	Hunter, R. M.	Telephones, granular	Dec. 8, 1896
572,756	Hunter and Higgins	Annunciators, step-by-step	Dec. 29, 1896
574,327	Hunter and Higgins	Motors, alternating, starters	Sept. 29, 1896
568,350	Hunting, F. L.	Magneto-electric, armatures, ring	July 21, 1896
564,200	Hutin and Leblanc	Motors, alternating	Nov. 17, 1896
571,478	Hutin and Leblanc	Motors, transmission of power, alternating	Dec. 1, 1896
572,510	Hutin and Leblanc	Magneto-electric, multipolar	Jan. 12, 1897
575,116	Hutin and Leblanc	Electromagnets	Jan. 19, 1897
575,679	Hussey, C. A.	Motors, hand-operating devices	Dec. 29, 1896
573,979	Imhoff, L.	Lights, incandescent, special features	Dec. 8, 1896
572,805	Jackson, L. A.	Lights, sockets and keys	Aug. 18, 1896
565,991	Jacobson, E. B.	Lights, arc, gravity-feed, clutch	Sept. 29, 1896
568,721	Jandus, W.	Inducto-riums, transformers, stationary	Mar. 23, 1897
579,395	Jeanuin, F. H.	Magneto-electric, armatures, pole	Apr. 20, 1897
580,977	Jecck, G. L.	Motors, hand-operating devices	Feb. 16, 1897
577,037	Jenney, C. D.	Annunciators, step-by-step	Nov. 17, 1896
571,445	Jenniugs, F. A.	do	Nov. 24, 1896
572,057	Jenniugs, F. A.	Conductors, connectors	Jan. 19, 1897
575,354	Jens, W.	Igniting devices, manual	Ang. 11, 1896
565,571	Jenny, F. W. S.		

## ALPHABETICAL INDEX—ELECTRICITY.

11

NO.	NAME.	CLASS.	DATE.
573,042	Jenny, F. W. Shindler	Stoves and furnaces, heaters	Dec. 15, 1896
570,808	Johl and Christian	Telegraphy, lightning-arresters	Nov. 3, 1896
566,400	Johnson, C. H.	Railway rolling-stock, locomotives, electric	Aug. 25, 1896
553,868	Johnson, G. E.	Railways, systems, overhead, trolleys	June 1, 1897
570,406	Johnson, G. P.	Cut-outs, electromagnetic	Oct. 27, 1896
574,430	Johnston, W. H.	Conductors, house-wiring	Jan. 5, 1897
571,594	Johnston, W. H.	Conductors	Nov. 17, 1896
554,056	Jolles, B.	Igniting devices, automatic	June 8, 1897
578,304	Jones, B. J.	Conductors, connectors	Mar. 2, 1897
573,601	Jones, F. W.	Telephones, systems, multiple switchboard, divided central	Dec. 22, 1896
580,320	Jones, H. C.	Cnt-outs, thermal, plug	Apr. 6, 1897
554,639	Jones, H. M.	Railways, sectional conductor, magnetic closers	June 15, 1897
555,829	Joyce, J.	Metallurgy, furnaces	Jan. 26, 1897
576,129	Jnlig, L.	Lighting, systems, display	Feb. 2, 1897
574,065	Kammer, J. von de	Lights, incandescent	Dec. 29, 1896
572,760	Kamm, L.	Telegraphy, printing-wheel	Dec. 8, 1896
570,599	Kapp, G.	Systems of distribution	Nov. 3, 1896
574,907	Kaysel, E. A. C.	Lights, incandescent, special features	Jan. 12, 1897
551,350	Keelyn, J. E.	Telephones, magnetico	Apr. 27, 1897
579,299	Keelyn and Miller	Telephones, systems, divided central	Mar. 23, 1897
576,554	Keen and Roberts	Indicators, station	Feh. 9, 1897
574,333	Keilholtz, P. O.	Lighting, systems, test	Dec. 29, 1896
573,884	Keith, A. E.	Telephones, switches	Dec. 29, 1896
579,725	Keithly, W. C.	Railways, conductor supports and insulators	Mar. 30, 1897
568,444	Kelch, W. M.	Annunciators, step-by-step	Sept. 29, 1896
563,387	Keller, M. E.	Medical and surgical	July 7, 1896
578,457	Kellner, C.	Aqueous bath, chemicals	Mar. 9, 1897
579,236	Kellner, C.	Aqueous bath, bleaching	Mar. 23, 1897
579,988	Kellner, C.	Electrolysis, fused bath	Apr. 6, 1897
555,387	Kellner, C.	Electrolysis, aqueous bath, metallizing	June 29, 1897
555,579	Kellogg, J. C.	Railways, systems, overhead, trolleys	June 29, 1897
574,739	Kelly, G. F.	Galvanometers	Jan. 5, 1897
578,750	Kelly, H. P.	Cnt-outs, electromagnetic	Mar. 16, 1897
570,310	Kelly, J. F.	Transformers, stationary	Oct. 27, 1896
576,732	Kelly, J. F.	Motors, hand-operating devices	Feh. 9, 1897
571,270	Kelly and Chesney	Systems of distribution	Nov. 10, 1896
578,016	Kester and Atherton	Magneto-electric, brushes and holders	Mar. 2, 1897
571,669	Khotinsky, A.	Telegraphy, lightning-arresters	Nov. 17, 1896
564,024	Khotinsky, A. de	Cut-outs, thermal	July 14, 1896
565,080	Khotinsky, A. de	Telephones, systems	Aug. 4, 1896
552,649	Killner, J. L.	Lighting, systems, display	May 18, 1897
578,643	Kinch, D. B.	Cut-outs, mechanical	Mar. 9, 1897
568,447	King, F.	Batteries, secondary	Sept. 29, 1896
572,013	King, W. L.	Railways, sectional conductor, mechanical closers	Nov. 24, 1896
567,599	Kips, J.	Annunciators	Sept. 15, 1896
551,465	Kirby, J., Jr.	Lights, incandescent, special features	Apr. 27, 1897
569,338	Kissinger, W. S.	Railways, conductor supports and insulators	Oct. 13, 1896
572,639	Kitsee, I.	Telegraphy, circuits and systems	Dec. 8, 1896
578,823	Kitsee, I.	Lighting, systems, battery	Mar. 16, 1897
554,474	Kitsee, I.	Batteries, one-fluid, zinc, oxides	June 15, 1897
575,830	Kleber, O. L.	Telegraphy, printing, wheel	Jan. 26, 1897
553,316	Klein, P. H.	Lights, arc, special features	June 29, 1897
555,317	Klein and Lavens	do	June 29, 1897
584,511	Kloman, T. W.	Railways, sectional conductor, mechanical closers	June 15, 1897
568,258	Knees, V. J.	Aqueous bath	Sept. 22, 1896
562,773	Knight, J. C.	Lights, arc, gravity-feed, gear-clutch	July 14, 1896
567,984	Knollmann, G. F.	Railway signals, cab, sectional rail	Sept. 22, 1896
577,864	Knowles, E. R.	Lights, arc, gravity-feed, gear-clutch	Mar. 2, 1897
572,607	Knowles, G.	Telegraphy, fire, non-interfering	Dec. 8, 1896
578,107	Kohn, M. M.	Lights, incandescent, special features	Mar. 2, 1897
571,598	Körner, J.	Batteries, secondary	Nov. 17, 1896
575,896	Kotyra, M.	Telegraphy, printing, wheel	Jan. 26, 1897
580,617	Krenslar, H.	Telegraphy, printing	Apr. 13, 1897
571,769	Krieger, G. F.	Igniting devices, manual	Nov. 24, 1896
576,369	Kritzer, C. C.	Cut-outs, electromagnetic	Feb. 2, 1897
563,972	Kroseberg and Stranh.	Electrolysis, aqueous bath, apparatus	July 14, 1896
553,912	Krotz, A. S.	Batteries, secondary	June 8, 1897
566,193	Knenneth, Schreier, and Knenneth	Lights, incandescent, special features	Aug. 18, 1896
563,282	Lachmann, E.	Railways, systems, condit.	July 7, 1896
579,300	Lachmann, E.	do	Mar. 23, 1897
573,670	Lagrelle, A. D.	Stoves and furnaces, heaters	Dec. 22, 1896
564,702	Lamme, B. G.	Magneto-electric, multipolar	July 28, 1896
564,703	Lamme, B. G.	Magneto-electric, armature	July 28, 1896

No.	NAME.	CLASS.	DATE.
565,284	Lamme, B. G	Regulators, alternating, compounding	Aug. 4, 1896
571,836	Lamme, B. G	Motors, alternating	Nov. 24, 1896
573,009	Lamme, B. G	Magneto-electric, multipolar	Dec. 15, 1896
574,035	Lamme, B. G	Regulators, alternating, compounding	Dec. 29, 1896
574,914	Lamme, B. G	Regulators, compound-winding	Jan. 12, 1897
582,131	Lamme, B. G	Transmission of power, phase regulation	May 4, 1897
579,273	Lane, F. A	Batteries, anodes	Mar. 23, 1897
577,760	Lane, G. M	Lights, arc, gravity-feed, gear-clutch	Feb. 23, 1897
570,028	Langelaan, J	Batteries, secondary	Oct. 27, 1896
576,405	Langford, C. A.	Railways, systems, overhead, trolleys	Feb. 2, 1897
571,531	Langhans, R	Aqueous bath	Nov. 17, 1896
571,532	Langhans, R	do	Nov. 17, 1896
571,533	Langhans, R	do	Nov. 17, 1896
583,060	La Roche, F. A	Lights, arc, gravity-feed, gear-clutch	May 25, 1897
580,497	Laura, G	Batteries, two-fluid, zinc, sulphates	Apr. 13, 1897
585,040	Laval, C. G. P. de	Metalurgy, furnaces	June 22, 1897
570,256	Lavens, E	Conductor, house-wiring	Oct. 27, 1896
585,318	Lavens, E	Lights, arc, special features	June 29, 1897
11,559	Lean, G. R	Lighting, systems	July 21, 1896
571,974	Lean, G. R	Lights, arc, gravity-feed, clutch	Nov. 24, 1896
571,975	Lean, G. R	Lights, arc, special features	Nov. 24, 1896
571,976	Lean, G. R	do	Nov. 24, 1896
566,914	Le Blanc, A	Telephones, calls, strength and polarity	Sept. 1, 1896
566,915	Le Blanc, A	do	Sept. 1, 1896
566,916	Le Blanc, A	do	Sept. 1, 1896
566,917	Le Blanc, A	Telegraphy, transmitters	Sept. 1, 1896
566,918	Le Blanc, A	Special applications, electromagnets	Sept. 1, 1896
576,201	Lecce and Bullock	Indicators, station	Feb. 2, 1897
575,653	Lee, Westcott, and Rohes	Telegraphy, condensers	Jan. 19, 1897
573,819	Lefluer, P. W	Railways, motor part along the track	Dec. 22, 1896
573,820	Lefluer, P. W	do	Dec. 22, 1896
573,821	Lefluer, P. W	do	Dec. 22, 1896
573,822	Lefluer, P. W	do	Dec. 22, 1896
573,823	Lefluer, P. W	do	Dec. 22, 1896
564,331	Lemp, H	Metal-welding, metal-working, electric	July 21, 1896
564,792	Lemp, H	Metal-welding, metal-working	July 28, 1896
563,599	Leonard, A. L	Magneto-electric, hand-machines	July 7, 1896
563,600	Leonard, H. W	Conductors, rheostats	July 7, 1896
566,693	Leonard, H. W	do	Aug. 25, 1896
568,088	Leonard, H. W	Motors, hand-operating devices	Sept. 22, 1896
572,903	Leonard, H. W	Transmission of power, alternating	Dec. 8, 1896
576,202	Leonard, H. W	Conductors, rheostats	Feb. 2, 1897
585,444	Leonard, H. W	Motors, hand-operating devices	June 29, 1897
575,997	Leiser, C. W	Telegraphy, repeater	Mar. 16, 1897
578,934	Lery, J. B. de	Lighting, mantles	Mar. 16, 1897
583,187	Lery, J. B. de	Mantles	May 25, 1897
583,330	Le Sueur, E. A	Aqueous bath, chemicals	May 25, 1897
564,433	Lewis, R. H	Conductors	July 21, 1896
567,719	Libbey, H. W	Magneto-electric, multipolar	Sept. 15, 1896
580,553	Libbey, H. W	Magneto-electric, hand-machines	Apr. 6, 1897
584,476	Libbey, S. H	Railways, conductor supports and insulators	June 15, 1897
584,477	Libbey, S. H	do	June 15, 1897
583,527	Lindberg, C	Meters	June 29, 1897
578,887	Linde, K	Lighting, mantles	Mar. 16, 1897
565,624	Linn, J. B	Railways, sectional conductor, mechanical closers	Aug. 11, 1896
568,262	Lister, J. T	Lights, incandescent	Sept. 22, 1896
564,793	Lippey and Finfrock	Railways, systems, overhead, trolleys	July 28, 1896
564,794	Lippey and Finfrock	do	July 28, 1896
564,795	Lippey and Finfrock	do	July 28, 1896
565,761	Lipscomb, H. E	Annunciators, time	Aug. 11, 1896
563,288	Lobach, W	Electrolysis, synthesis	July 7, 1896
573,092	Loeke, F. M	Insulators	Dec. 15, 1896
568,859	Lodge and Lodge	Indicators	Oct. 6, 1896
575,002	Lodyguinne, A de	Lights, filaments and carbons	Jan. 12, 1897
575,658	Lodyguinne, A. de	do	Jan. 19, 1897
578,520	Lomhard, N	Telephones, granular	Mar. 9, 1897
570,258	Lowman, B. J	Telegraphy, circuit-closers, thermal	Oct. 27, 1896
571,091	Lovejoy, T. H	Railway rolling-stock, motors	Nov. 10, 1896
563,290	Loveridge, F. H	Regulators, resistance	July 7, 1896
564,757	Lucas, A. H	Lights, arc, special features	July 28, 1896
569,649	Luee, J. E	Medical and surgical, body-wear	Oct. 20, 1896
571,310	Lundell, R	Magneto-electric, multipolar	Nov. 10, 1896
583,264	Lundell, R	Motors, hand operating devices	May 25, 1897
564,706	Lüpke, P	Railway signals, block	July 28, 1896
578,825	Luscomb and Crane	Railways, conductor supports and insulators	Mar. 16, 1897
584,383	Luscomb, H. H	do	June 15, 1897

No.	NAME.	CLASS.	DATE.
584,382	Luraschi, A.	Telegraphy, circuit-closers, thermal	June 15, 1897
563,934	Luyers, C.	Railway-brakes, fluid-pressure	July 14, 1896
573,517	Lynch, V. T.	Railways, systems, overhead, trolleys	Dec. 22, 1896
564,437	Macheth, J.	Magneto-electric, hand-machines	July 21, 1896
567,989	Macdonald, A. F.	Railway-brakes, brakes	Sept. 22, 1896
571,092	Macevoy, P. C.	Railways, systems, overhead, trolleys	Nov. 10, 1896
574,922	MacKenzie, G. W.	Clocks	Jan. 12, 1897
577,141	Mackintosh, F.	Magneto-electric, connecting devices	Feb. 16, 1897
584,384	Macklin, A. B.	Telegraphy, fire, variable signal, dial	June 15, 1897
571,488	Madden, J. W.	Medical and surgical, body-wear	Nov. 17, 1896
572,430	Magee, F. A.	Lights, incandescent, special features	Dec. 1, 1896
572,431	Magee, F. A.	do	Dec. 1, 1896
575,523	Mailoux, C. O.	Telegraphy, circuit-closers	Jan. 19, 1897
582,936	Majert, W.	Batteries, secondary	May 18, 1897
571,977	Manger and Huehel.	Conductors, connectors	Nov. 24, 1896
567,487	Mann, E. F.	Railways, general	Sept. 8, 1896
579,759	Mansfield, F.	Railways, sectional conductor, mechanical closers.	Mar. 30, 1897
583,916	Marchaud and Marchand.	Lights, arc, special features	June 8, 1897
568,577	Marcuse, H.	Telephones, supports	Sept. 29, 1896
574,038	Marks, R. J.	Aqueous bath, apparatus	Dec. 29, 1896
571,050	Marks, W. D.	Meters	Nov. 10, 1896
573,021	Marks, W. D.	do	Dec. 15, 1896
571,489	Marquand and Lowden	Rheostats	Nov. 17, 1896
574,101	Martiu, C. B.	Railways, conductor supports and insulators	Dec. 29, 1896
563,935	Martiu, H. A.	Telephones, multiple-electrode	July 14, 1896
579,001	Martin, S. J.	Batteries, secondary	Mar. 16, 1897
570,034	Martin and Hewlett	Railways, conductor supports and insulators	Oct. 27, 1896
571,780	Marzahn, W. F.	Magneto-electric, armatures, drum	Nov. 24, 1896
581,561	Mass, H. W.	Telephones, calls, step-by-step	Apr. 27, 1897
564,629	Mather, A. C.	Railways, systems, overhead	July 28, 1896
575,723	Mather, A. C.	Railway rolling-stock, motors	Jan. 26, 1897
565,085	Mattson, C. D.	Railways, sectional conductor, mechanical closers.	Aug. 4, 1896
564,567	Maxim, H. F.	Telegraphy, circuit-closers, thermal	July 21, 1896
578,345	Maxim, H. F.	Telegraphy, circuit-closers	Mar. 9, 1897
568,408	Mayer, F. W.	Lights, incandescent, special features	Sept. 29, 1896
570,133	May, W. D. C.	Aqueous bath, apparatus	Oct. 27, 1896
583,810	May and Kiug	Batteries, secondary	June 1, 1897
563,294	McBerty, F. R.	Telephones, systems, intermediate sub-station.	July 7, 1896
567,404	McBerty, F. R.	Telephones, systems, multiple switchboard, divided central.	Sept. 8, 1896
573,992	McBerty, F. R.	Telephones, systems, central	Dec. 29, 1896
574,255	McBerty, F. R.	do	Dec. 29, 1896
584,393	McBerty, F. R.	Railway signals, sectional rail	June 15, 1897
579,929	McBrien, F.	Railways, conductor supports and insulators	Mar. 30, 1897
568,452	McCallum, W. A.	Priutung, electrotyping	Sept. 29, 1896
582,364	McCarroll, W.	Railways, conductor supports and insulators	May 11, 1897
565,174	McCarthy, L.	do	Aug. 4, 1896
570,140	McCarthy, L.	Cut-outs, thermal	Oct. 27, 1896
584,009	McClintock, T. S.	Alarms, burglar	June 8, 1897
578,893	McDermott, M. P.	Cut-outs, mechanical, rotary	Mar. 16, 1897
570,578	McElroy, J. F.	Cut-outs, thermal	Nov. 3, 1896
577,822	McElroy, J. F.	Railway rolling-stock, locomotives	Feb. 23, 1897
578,760	McElroy, J. F.	Lights, incandescent, special features	Mar. 16, 1897
572,124	McElroy, W.	Conductors, connectors	Dec. 1, 1896
573,612	McEvoy, C. H.	Meters	Dec. 22, 1896
581,298	McFall, W. H.	Lights, sockets and keys	Apr. 27, 1897
565,562	McFarlane and Edgar	Annunciators, drop	Aug. 11, 1896
573,903	McGahy, J. A.	Railway rolling-stock, electric motors, rigid frame.	Dec. 29, 1896
566,526	McGuire and Huhhard	Railway rolling-stock, motors	Aug. 25, 1896
580,951	McGuire and Huhhard	Railways, systems, overhead, trolleys	Apr. 20, 1897
583,881	McIntire, C. S.	Railways, locomotives, motor on axle	June 1, 1897
570,945	McLaughlin, J. F.	Railway rolling-stock, locomotives	Nov. 10, 1896
573,905	McLaughlin, J. F.	Railways, locomotives	Dec. 29, 1896
575,490	McLaughlin, J. F.	Connectors	Jan. 19, 1897
583,309	McLaughlin, J.	Lights, arc, gravity-feed, clutch	May 25, 1897
567,840	McLaughlin, J. M.	Conductors, connectors	Sept. 15, 1896
567,841	McLanghlin, J. M.	Telegraphy, automatic	Sept. 15, 1896
585,319	McPherson, L. O.	Railways, systems, conduit	June 29, 1897
583,926	McRoy, J. T.	Conductors, connectors	June 8, 1897
578,829	McTighe and Childs	Insulators	Mar. 16, 1897
584,823	Mead, G. W.	Lights, arc, positive-feed, step gear-clutch	June 22, 1897
569,561	Meade, N. G.	Stoves and furnaces, heaters, electric	Oct. 6, 1896
567,247	Meek, J. E.	do	Sept. 8, 1896

No.	NAME.	CLASS.	DATE.
567,248	Meek, J. E.	do	Sept. 8, 1896
568,450	Meek, J. E.	Cut-outs, mechanical, rotary	Sept. 29, 1896
568,451	Meek, J. E.	Telegraphy, circuit-closers	Sept. 29, 1896
568,783	Meek and Powers	Lights, sockets and keys	Oct. 6, 1896
579,239	Meissner, W. O.	Telephones, systems, central	Mar. 23, 1897
574,926	Menchien, J.	Cut-outs, thermal	Jan. 12, 1897
579,158	Mengis, M. C.	Railways, telpher and towing	Mar. 23, 1897
564,311	Mercer, J.	Electrolysis, diaphragms	July 21, 1896
567,651	Merriam, H. P.	Regulators, resistance	Sept. 15, 1896
566,784	Merrick and Brook	Telephones, calls, step-by-step	Sept. 1, 1896
571,600	Merritt, F. W.	Motors, reciprocating	Nov. 17, 1896
567,911	Merritt, O. J.	Indicators, station	Sept. 15, 1896
567,912	Merritt, O. J.	do	Sept. 15, 1896
572,609	Merritt and Joy	Telegraphy, printing	Dec. 8, 1896
584,694	Mersh, P.	Lighting, mantles	June 15, 1897
571,863	Mershon, R. D.	Inductoiums, transformers, stationary	Nov. 24, 1896
565,627	Meyer, A. F. W.	Telephones, systems, central	Ang. 11, 1896
565,491	Meyer, O. E.	Electrolysis, purifying liquids, water	Aug. 11, 1896
564,443	Mezzer, C. A.	Conductors, house-wiring	Jnly 21, 1896
563,501	Milbourne, J. P.	Signaling, indicators	Jnly 7, 1896
576,372	Miller, J. Z.	Magneto-electric, hand-machines	Feb. 2, 1897
575,488	Milligau, T. P.	Railways, telpher and towing	Jau. 19, 1897
565,086	Milliken, G. F.	Telegraphy, fire, non-interfering	Aug. 4, 1896
571,950	Milliken, G. F.	do	Nov. 24, 1896
568,693	Mills, N. T.	Bells	Sept. 29, 1896
577,532	Mirando, A. R.	Annunciators	Feb. 23, 1897
564,632	Mitchell, A. W.	Motors, hand-operating devices	July 28, 1896
567,250	Moody, W. S.	Inductoiums, transformers, stationary	Sept. 8, 1896
569,931	Moffatt, J. M.	Lights, sockets and keys	Oct. 20, 1896
572,138	Moffatt, J. M.	Batteries, vessels	Dec. 1, 1896
581,426	Moffatt, R. R.	Batteries, one-fluid, zinc	Apr. 27, 1897
571,093	Montgomery, E. H.	Cut-outs, thermal	Nov. 10, 1896
565,775	Moore, D. McF.	Lighting, systems, display	Aug. 11, 1896
565,776	Moore, D. McF.	Lighting, systems	Aug. 11, 1896
565,777	Moore, D. McF.	do	Aug. 11, 1896
568,863	Moore, D. McF.	do	Oct. 6, 1896
580,987	Moore, D. McF.	do	Apr. 20, 1897
580,988	Moore, D. McF.	do	Apr. 20, 1897
580,092	Moore, R. L.	Telegraphy, circuit-closers	Apr. 6, 1897
563,395	Moore, W. A.	Telephones, granular	July 7, 1896
579,003	Moore, W. J.	do	Mar. 16, 1897
565,913	Morden, W. J.	Lighting, systems, car	Aug. 18, 1896
572,268	Morgan, B. B.	Railway signals, track instruments	Dec. 1, 1896
575,366	Morgan, W. H.	Motors, hand-operating devices	Jan. 19, 1897
582,663	Morgan, W. H.	do	May 18, 1897
577,771	Morris, H. G.	Batteries, secondary	Feb. 23, 1897
569,881	Morris, J. E.	Lights, arc, gravity-feed, ring-clutch	Oct. 20, 1896
569,722	Morrow, J. T.	Aqueous bath, ores	Oct. 20, 1896
571,927	Morton, J. T.	Cut-outs, mechanical, oscillating snap	Nov. 24, 1896
581,406	Morton, W. J.	Telephones, magnetic	Apr. 27, 1897
573,830	Mosher, J. A.	Lights, arc, gravity-feed, gear-clutch	Dec. 22, 1896
579,161	Mosher, J. A.	do	Mar. 23, 1897
582,218	Mosher, J. A.	Motors, reciprocating	May 11, 1897
582,664	Mosher, J. A.	Lights, arc, gravity-feed, pivot-dog clutch	May 18, 1897
582,665	Mosher, J. A.	Lights, arc, gravity-feed, ring-clutch	May 18, 1897
565,861	Mosher and Bartholomew	Lights, arc and incandescent	Aug. 11, 1896
564,333	Moskowitz, M.	Lighting, systems, car	July 21, 1896
564,334	Moskowitz, M.	do	July 21, 1896
564,335	Moskowitz, M.	do	July 21, 1896
564,336	Moskowitz, M.	do	July 21, 1896
571,951	Moskowitz, M.	Magneto-electric, bipolar	Nov. 24, 1896
571,952	Moskowitz, M.	Lighting, systems, secondary-battery	Nov. 24, 1896
577,872	Moskowitz, M.	Lighting, systems, car	Mar. 2, 1897
582,077	Motz, E.	Mills, amalgamators	May 4, 1897
569,882	Moulart, A. J.	Telegraphy, circuit-closers	Oct. 20, 1896
579,597	Moxham, A. J.	Metallurgy, furnaces	Mar. 30, 1897
584,184	Moyer, G. L.	Lights, arc, gravity-feed, ring-clutch	June 8, 1897
584,185	Moyer, G. L.	Cut-outs, mechanical, rotary	June 8, 1897
584,186	Moyer, G. L.	Lights, arc, gravity-feed, clutch	June 8, 1897
577,534	Muirhead, A.	Telegraphy, automatic	Feb. 23, 1897
568,095	Muir, J. L.	Medical and surgical, electrodes	Sept. 22, 1896
566,334	Münch, A.	Telephones, details	Aug. 25, 1896
580,552	Munroe, D. M.	Alarms, burglar	Apr. 13, 1897
566,925	Muuson, A. L.	Measuring instruments, balances, electrical attachments.	Sept. 1, 1896
566,786	Murphy and Pierce	Railways, sectional conductors, mechanical closers.	Sept. 1, 1896

No.	NAME.	CLASS.	DATE.
573,344	Mustain, S. A.	Railways, switches	Dec. 15, 1896
581,363	Naber, H. A.	Meters	Apr. 27, 1897
576,145	Nash, L. H.	Regulators, componnd-winding	Feb. 2, 1897
569,122	Naville and Guye	Electrolysis, synthesis	Oct. 6, 1896
581,170	Nebel, J.	Conductors, rheostats	Apr. 20, 1897
584,235	Nesmitb and Arnett	Conductors, insulators	June 8, 1897
581,678	Nesbitt, J.	Games and toys, toys	Apr. 27, 1897
573,233	Netto, M.	Electrolysis, fused batb	Dec. 15, 1896
584,644	Newberry, F. T.	Conductors, connectors	June 15, 1897
581,129	Nevius, L. W.	Lights, incandescent, special features	Apr. 20, 1897
579,169	Newsom, J. N.	Telephones, calls, step-by-step	Mar. 23, 1897
579,170	Newsom, J. N.	Railway signals	Mar. 23, 1897
581,562	Newton, H. S.	Conductors, connectors	Apr. 27, 1897
582,303	Newton, W. J.	Cut-outs, mechanical, oscillating snap	May 11, 1897
568,918	Newton, H. C.	Conductors, connectors	Oct. 6, 1896
581,365	Nienstaedt, E.	Lighting, mantles	Apr. 27, 1897
582,481	Nolan, E. E.	Magneto-electric, armatures, ring	May 11, 1897
568,204	Norden, M.	Lighting, systems, display	Sept. 22, 1896
568,205	Norden, M.	Alarms, burglar	Sept. 22, 1896
585,350	Noreck, H.	Lights, incandescent, special features	June 29, 1897
570,328	Norman, A.	Railways, sectional conductor, magnetic closers.	Oct. 27, 1896
569,385	North, C. H.	Magneto-electric, hand-machines	Oct. 13, 1896
578,113	Noyes, B. J.	Telegaphy, Morse registers	Mar. 2, 1897
578,114	Noyes, B. J.	Telegaphy, fire, variable signal, dial	Mar. 2, 1897
578,115	Noyes, B. J.	Telegaphy, Morse registers	Mar. 2, 1897
566,612	O'Connor and Thrner	Alarms, acnoreal	Aug. 25, 1896
566,613	O'Connor and Thrner	do	Aug. 25, 1896
566,011	Oelschläger and Schrottke	Telegaphy, lightning-arresters	Aug. 18, 1896
564,638	Oghorn, H.	Railways, systems, overhead, trolleys	July 28, 1896
566,465	Oliver, J. B.	Conductors, insulators	Aug. 25, 1896
573,101	O'Neill, J. J.	Insulators	Dec. 15, 1896
563,304	Ongley, C. E.	Motors, steering and propulsin	July 7, 1896
572,561	Opdyke, S. B.	Annunciators	Dec. 8, 1896
572,562	Opdyke, S. B.	do	Dec. 8, 1896
572,563	Opdyke, S. B.	do	Dec. 8, 1896
580,708	Orme, R.	Railways, systems, overhead, trolleys	Apr. 13, 1897
572,940	Orth, C. F. L.	do	Dec. 8, 1896
584,700	Orr and Fngb	Indicators, station	June 15, 1897
573,033	Oshorn, B. E.	Railways, sectional conductor, magnetic closers.	Dec. 15, 1896
575,615	Osyor, D. N.	Railways, systems, overhead	Jan. 19, 1897
579,075	Owen, Williams, and Donaldson	Indicators	Mar. 16, 1897
576,375	Paca, W. S.	Connectors	Feb. 2, 1897
576,469	Paca, W. S.	do	Feb. 2, 1897
574,565	Packard, G. T.	Meters	Jau. 5, 1897
577,447	Packard, G. T.	Cut-outs, electromagnetic	Feb. 23, 1897
567,355	Palmer, H. R.	Lights, arc, gravity-feed, ring-clutch	Sept. 8, 1896
571,137	Palmer, H. R.	Lights, arc, special features	Nov. 10, 1896
573,911	Page, L. H.	Lights, incandescent, special features	Dec. 29, 1896
578,655	Paisste, H. T.	Lighting, ceiling-block	Mar. 9, 1897
573,350	Palfy, A.	Indicators, station	Dec. 15, 1896
563,940	Parcelle, A. L.	Magneto-electric, multipolar	July 14, 1896
580,889	Parcellle, A. L.	Magneto-electric, armatures, ring	Apr. 20, 1897
578,464	Parham, E. C.	Motors, hand-operating devices	Mar. 9, 1897
583,630	Parke, J. J.	Igniting, devices, manual	June 1, 1897
570,046	Parry, A. A.	Railway signals, block	Oct. 27, 1896
569,424	Parrish, H. A.	do	Oct. 13, 1896
585,342	Parrish, M. W.	Telegaphy, railway car	June 29, 1897
567,608	Parshall, H. F.	Cut-outs, elctromagnets	Sept. 15, 1896
584,062	Parshall, H. F.	Regulators, alternating	June 8, 1897
574,215	Partington, C.	Railway signals	Dec. 29, 1896
568,919	Pass and Seymour	Lights, sockets and keys	Oct. 6, 1896
577,317	Patten, F. J.	Metallnrgy, furnaces	Feb. 16, 1897
577,370	Patten, F. J.	do	Feb. 16, 1897
577,371	Patten, F. J.	Telegaphy, lightning-arresters	Feb. 16, 1897
584,957	Patten, F. J.	Railways, systems, distribution	June 22, 1897
563,577	Patterson, W. R.	Telephones, systems, intermediate sub-station.	Jnly 14, 1896
572,215	Patterson, W. R.	Conductors, connectors	Dec. 1, 1896
584,649	Patton, W. P.	Batteries, secondary	June 15, 1897
567,721	Payson, J. R.	Electro-chemistry, batteries, gas	Sept. 15, 1896
564,292	Peck, C. M.	Annunciators	July 21, 1896
563,685	Peckham, E.	Motors, equalizing levers	July 7, 1896
567,503	Pelatan and Clerici	Aqueous hath, ores	Sept. 8, 1896
568,699	Pelatan and Clerici	do	Sept. 22, 1896
574,819	Pepper, W. L.	Railways, systems, overhead, trolleys	Jan. 5, 1897

No.	NAME.	CLASS.	DATE.
563,407	Perkins, C. G	Cut-outs, mechanical, rotary	July 7, 1896
569,299	Perkins, C. G	do	Oct. 13, 1896
570,410	Perkins, F. B	Motive-power, elevators	Oct. 27, 1896
567,550	Petereit, A	Lights, incandescent, special features	Sept. 8, 1896
585,047	Petersen, C	Railways, systems, conduit	June 22, 1897
573,286	Piedfort, A	Telegraphy, automatic	Dec. 15, 1896
563,614	Piel, J	Telephones, switches	July 7, 1896
575,573	Pieper and Pieper	Motors, hand-operating devices	Jan. 19, 1897
581,034	Pike, C. F	Mills, amalgamators	Apr. 20, 1897
578,420	Pike, F. N	Igniting devieses, manual	Mar. 9, 1897
582,085	Pike, F. N	do	May 4, 1897
583,933	Pillshury, E. S	Motors, alternating, starters	June 8, 1897
566,697	Place, J. F	Conductors	Aug. 25, 1896
579,894	Poole, J. W	Cut-outs, mechanical	Mar. 30, 1897
581,366	Poole, C. C	Magneto-electric, bipolar	Apr. 27, 1897
581,135	Porter, M. M	Telegraphy, keys	Apr. 20, 1897
568,458	Potter and Case	Regulators, alternatiug	Sept. 29, 1896
583,935	Potter and Case	Motors, hand-operating deviees	June 8, 1897
568,459	Potter, W. B	Telegraphy, lightning-arresters	Sept. 29, 1896
571,454	Potter, W. B	Railways, conductor supports and insulators	Nov. 17, 1896
571,455	Potter, W. B	do	Nov. 17, 1896
575,782	Potter, W. B	do	Jan. 26, 1897
583,934	Potter, W. B	Galvanometers	June 8, 1897
584,013	Potter, W. B	Connectors	Juue 8, 1897
569,300	Powell, W. II	Cut-outs, mechanical, rotary	Oct. 13, 1896
569,301	Powell, W. H	do	Oct. 13, 1896
569,302	Powell, W. H	do	Oct. 13, 1896
571,097	Powell, W. H	Cut-outs, electromagnetic	Nov. 10, 1896
573,531	Pratt, C. R	Motive-power, elevators	Dec. 22, 1896
567,865	Pratt, W. T. C	Railways, signals, automatic	Sept. 15, 1896
570,955	Pratt and Ripley	Cut-outs, electromagnetic	Nov. 10, 1896
581,136	Preece, W. L	Lights, arc, gravity-feed, clutch	Apr. 20, 1897
572,312	Price, E. F	Metallurgy, furnaces	Dec. 1, 1896
573,289	Pridham, M	Electrolysis, purifying liquids	Dec. 15, 1896
573,290	Pridham, M	do	Dec. 15, 1896
573,355	Pridham, M	Aqueous bath, apparatus	Dec. 15, 1896
574,341	Pridham, M	Electrolysis, synthesis, ozone	Dec. 29, 1896
567,411	Priest, E. D	Railways, systems, overhead, trolleys	Sept. 8, 1896
581,368	Priest, E. D	Railways, systems, conduit	Apr. 27, 1897
583,933	Priest, E. D	Motors, hand-operating devices	June 8, 1897
583,939	Priest and Merriek	do	June 8, 1897
573,356	Pullen, L. W	Telephones, granular	Dec. 15, 1896
574,217	Pusey, T. M	Regulators, resistance	Dec. 29, 1896
566,936	Putnam, J. E	do	Sept. 1, 1896
570,053	Pyle, G. C	Lights, arc, gravity-feed	Oct. 27, 1896
582,435	Pyott, L. T	Railway rolling-stock, motors, bogies	May 11, 1897
573,617	Queisser, P. F. H	Lights, arc, gravity-feed, gear-clutch	Dec. 22, 1896
571,791	Quimby, H. R	Lights, arc, special features	Nov. 24, 1896
571,792	Quimby, H. R	Lights, arc, gravity-feed, clutch	Nov. 24, 1896
572,064	Rae, J	Lights, arc, special features	Nov. 24, 1896
568,412	Ramage, A. S	Aqueous bath, cathodes	Sept. 29, 1896
575,733	Ramsey, W. McC	Railway signals	Jan. 26, 1897
569,352	Randall, C. F	Railways, systems, overhead, trolleys	Oct. 13, 1896
573,333	Randall, C. F	do	Dec. 22, 1896
567,688	Rankin, R. F	Telephones, electric	Sept. 15, 1896
568,370	Ransom and Corrothers	Alarms	Sept. 29, 1896
579,079	Raps, A	Meters	Mar. 16, 1897
582,090	Raps, A	Galvanometers	May 4, 1897
574,761	Rawson, S. B	Telephones, granular	Jan. 5, 1897
578,771	Rawson, S. B	Telephones, switches	Mar. 16, 1897
569,470	Raverot and Hess	Telephones, systems, multiple switchboard, divided central	Oct. 13, 1896
572,182	Ray, F. A	Telephones	Dec. 1, 1896
573,294	Ray, F. A	Telephones, granular	Dec. 13, 1896
573,105	Raymond, E. B	Magneto-electrie	Dec. 15, 1896
570,565	Reagan, H. C	Railways, sectional conductor, magnetic closers	Nov. 3, 1896
570,566	Reagan, H. C	do	Nov. 3, 1896
581,769	Reagan, H. C	do	May 4, 1897
577,270	Reagan, H. C., Jr	Batteries, thermal	Feb. 16, 1897
585,229	Reagan, H. C	do	June 29, 1897
577,450	Redon, C. F. de	Railways, sectional conductor, magnetic closers	Feb. 23, 1897
565,178	Reed, H. A	Telegraphy, circuit-closers, thermal	Ang. 4, 1896
565,217	Reed, H. A	Telephones, systems, central	Aug. 4, 1896
574,343	Reid, E. S	Conductors	Dec. 29, 1896
573,107	Reist, H. G	Magneto-electric, multipolar	Dec. 15, 1896

No.	NAME.	CLASS.	DATE.
577,148	Reist, H. G.	Magneto-electric, armatures, drum	Feb. 16, 1897
583,692	Renault, E.	Insulators	June 1, 1897
565,032	Replogle, M. A.	Regulators, engine-control	Aug. 4, 1896
567,044	Rhodin, J. G. A.	Batteries, secondary	Sept. 1, 1896
567,045	Rhodin, J. G. A.	do	Sept. 1, 1896
533,936	Rice, E. F.	Metallurgy, furnaces	June 8, 1897
567,197	Rice, E. W., Jr.	Regulators, alternating	Sept. 8, 1896
575,785	Rice, E. W., Jr.	Railways, sectional conductor, magnetic closers.	Jan. 26, 1897
583,944	Rice, E. W.	Inductoiums, transformers, stationary	June 8, 1897
584,482	Rice, E. W.	Railways, systems, distribution	June 15, 1897
585,287	Rice, E. W.	Lighting, systems, test	June 29, 1897
575,170	Richards, H. T.	Conductors	Jan. 12, 1897
573,161	Richter and Eschler	Lights, arc, special features	Dec. 15, 1896
573,162	Richter and Eschler	Lights, arc, gravity-feed, double-dog clutch	Dec. 15, 1896
564,717	Rider, H. E.	Medical and surgical	July 28, 1896
564,453	Ries, E. E.	Metal-welding, metal working, electric	July 21, 1896
567,794	Ries, E. E.	Telephones, switches	Sept. 15, 1896
582,233	Rites, F. M.	Regulators, engine-control	May 11, 1897
578,611	Rively, J. D.	Medical and surgical, electrodes	Mar. 9, 1897
582,093	Riley, G. B.	Telegraphy, circuit-closers, thermal	May 4, 1897
580,584	Robertson, A. J.	Conductors	Apr. 13, 1897
579,366	Robertson, F. C.	Cut-outs, electromagnetic	Mar. 23, 1897
576,766	Robertson, W. F.	Stoves and furnaces, heaters	Feb. 9, 1897
566,537	Robinson, T. C.	Motors, reciprocating	Aug. 25, 1896
566,801	Robinson, W. R.	Railways, sectional conductors, mechanical closers.	Sept. 1, 1896
572,685	Robinson, W.	Railway rolling-stock, locomotives	Dec. 8, 1896
572,686	Rohinson, W.	do	Dec. 8, 1896
580,057	Robinson, W.	Railways, sectional conductor, magnetic closers.	Apr. 6, 1897
583,418	Roberson, O. R.	Telegraphy, quadruplex	May 25, 1897
581,430	Roherts, R. S.	Railway signals	Apr. 27, 1897
576,472	Robes, E. C.	Telephones, calls	Feb. 2, 1897
574,171	Roche, J. A.	Railways, sectional conductor, magnetic closers.	Dec. 29, 1896
568,209	Rodriguez, A. M.	Lights, incandescent, special features	Sept. 22, 1896
583,945	Rodriguez, A. M.	do	June 8, 1897
585,480	Roehuck, A. C.	Horology, time-alarms	June 29, 1897
573,924	Rogers, A. C.	Telegraphy, fire	Dec. 29, 1896
564,314	Rogers, J. B.	Annunciators, step-by-step	July 21, 1896
580,957	Rolfe, C. A.	Cnt-outs, thermal	Apr. 20, 1897
567,657	Roome, W. G.	Fences, railway, gates, electric	Sept. 15, 1896
574,526	Rooney, J. J.	Batteries, secondary	Jan. 5, 1897
565,092	Root, Reed, and Hale	Lights, incandescent, special features	Aug. 4, 1896
564,258	Rosebach, G.	Medical and surgical, electrode	July 21, 1896
567,170	Rousseau, D.	Telephones, switches	Sept. 8, 1896
571,734	Rout, B. F.	Cut-outs, mechanical	Nov. 17, 1896
571,399	Rowan, D. N.	Telephones, granular	Nov. 17, 1896
565,493	Rowand, L. G.	Telegraphy, fire, automatic	Sept. 29, 1896
568,494	Rowand, L. G.	Telegraphy, fire	Sept. 29, 1896
568,495	Rowand, L. G.	do	Sept. 29, 1896
570,882	Rowand, L. G.	Lighting, systems, safety	Nov. 3, 1896
566,022	Ruebel, C. A. E.	Telephones, multiple-electrode	Aug. 18, 1896
568,103	Runkle, O. M.	Telegraphy, keys	Sept. 22, 1896
571,218	Rusby, J. H.	Lights, ceiling-hlock	Nov. 10, 1896
582,694	Rushmore, S. W.	Lights, are, gravity-feed, gear-clutch	May 18, 1897
579,808	Russell, R. M.	Lights, incandescent, special features	Mar. 30, 1897
553,820	Russell, S. H.	Lights, sockets and keys	June 1, 1897
564,395	Russell, W. H.	Railways, systems, overhead trolleys	July 21, 1896
567,690	Sackett, O. R.	do	Sept. 15, 1896
567,691	Salberg, P. R.	Lights, arc, gravity-feed, gear-clutch	Sept. 15, 1896
584,242	Salom, P. G.	Aqueous bath, ores	June 8, 1897
570,773	Sandbeck, C. N.	Telephones, switches	Nov. 3, 1896
577,070	Sandham, H.	Aqueous bath, cathodes	Feb. 16, 1897
571,539	Sawyer, W. H.	Conductors, connectors	Nov. 17, 1896
581,773	Sayer, R. C.	Railways, general	May 4, 1897
576,621	Schalscha, M.	Regulators, resistance	Feb. 9, 1897
576,622	Schalscha, M.	Railways, telpher and towing	Feb. 9, 1897
572,377	Schatz, A. E.	do	Dec. 1, 1896
579,012	Scheeffer, G. A.	Magneto-electric, multipolar	Mar. 16, 1897
580,820	Scheeren, E. J. M.	Locks and latches	Apr. 13, 1897
582,237	Schimpff, H.	Transmission of power, direct	May 11, 1897
574,632	Schlesinger, W. M.	Railways, locomotives	Jan. 5, 1897
569,802	Schmid, A.	Railways, electric locomotives	Oct. 20, 1896
577,071	Schmid, A.	Railway rolling-stock, locomotives	Feb. 16, 1897
571,288	Scmidt, E.	Igniting devices, automatic	Nov. 10, 1896

No.	NAME.	CLASS.	DATE.
570,411	Schmidt, G. A	Lights, incandescent, special features	Oct. 27, 1896
582,128	Schmidt, P	Batteries, one-fluid, zinc	May 25, 1897
582,102	Schmidt and Davis	Motors, hand-operating devices	May 4, 1897
582,396	Schnee, W. G	Insulators	May 11, 1897
564,652	Schneider, F. W	Batteries, secondary	July 28, 1896
576,163	Schneider, F. W	do	Feb. 2, 1897
576,164	Schneider, F. W	do	Feb. 2, 1897
580,428	Schneider, F. W	do	Apr. 13, 1897
566,541	Schreuder, J. G	Railway signals, sectional rail	Aug. 25, 1896
570,062	Schreuder, J. G	Railway signals	Oct. 27, 1896
575,908	Schreuder, J. G	do	Jan. 26, 1897
579,933	Schreuder and Coleman	Railway signals, sectional rail	Mar. 30, 1897
581,775	Schwabe, C	Electrolysis, multiple	May 4, 1897
572,378	Schwagerman, W	Annunciators, drop	Dec. 1, 1896
566,416	Schwarze, C. J	Telephones, granular	Aug. 25, 1896
572,775	Schwarze, C. J	do	Dec. 8, 1896
580,557	Schwerin, R. P	Lights, incandescent, special features	Apr. 13, 1897
572,131	Schulte, J. A	Clocks	Dec. 1, 1896
567,416	Scofield and Wayland	Railways, general	Sept. 8, 1896
569,803	Scott, C. F	Cut-outs, thermal	Oct. 20, 1896
582,698	Scott, C. H	Connectors	May 18, 1897
564,455	Scott, C. J	Motive-power, motors	July 21, 1896
571,695	Scott, F. P	Telegraphy, circuits and systems	Nov. 17, 1896
567,257	Scott, G. H	Conductors, connectors	Sept. 8, 1896
571,888	Scott, G. H	do	Nov. 24, 1896
567,924	Scott and Shonrrord	Lighting, systems, display	Sept. 15, 1896
563,315	Scribner, C. E	Lights, arc, gravity-feed, gear-clutch	July 7, 1896
563,316	Scribner, C. E	Fluid	July 7, 1896
563,317	Scribner, C. E	do	July 7, 1896
563,318	Scribner, C. E	Telephones, systems, intermediate sub-sta-tion	July 7, 1896
563,319	Scribner, C. E	Lights, incandescent	July 7, 1896
563,320	Scribner, C. E	Telephones, systems, multiple switchboard, test	July 7, 1896
563,321	Scribner, C. E	Lights, incandescent	July 7, 1896
563,322	Scribner, C. E	Telephones, systems	July 7, 1896
563,323	Scribner, C. E	Telephones, systems, multiple switchboard, test	July 7, 1896
563,324	Scribner, C. E	Telegraphy, fire	July 7, 1896
563,325	Scribner, C. E	Telephones, systems, central	July 7, 1896
563,326	Scribner, C. E	Telephones, switchboards	July 7, 1896
571,906	Scrihner, C. E	Telephones, systems, multiple switchboard, test	Nov. 24, 1896
571,907	Scribner, C. E	Telephones, magnetic	Nov. 24, 1896
571,910	Scribner, C. E	Telephones, systems, multiple switchboard, test	Nov. 24, 1896
572,218	Scribner, C. E	do	Dec. 1, 1896
572,219	Scribner, C. E	Telephones, systems	Dec. 1, 1896
572,220	Scribner, E. E	Bells	Dec. 1, 1896
572,221	Scribner, C. E	Telephones, systems, central	Dec. 1, 1896
572,222	Scribner, C. E	do	Dec. 1, 1896
574,005	Scribner, C. E	Alarms	Dec. 29, 1896
574,006	Scribner, C. E	Telephones, systems, multiple switchboard, test	Dec. 29, 1896
574,045	Scribner, C. E	Lights, arc, positive-feed, clutch	Dec. 29, 1896
574,046	Scribner, C. E	Telephones, systems	Dec. 29, 1896
574,221	Scribner, C. E	Telephones, systems, multiple switchboard, test	Dec. 29, 1896
574,222	Scrihner, C. E	Telephones, systems, central	Dec. 29, 1896
574,224	Scribner, C. E	Telephones, switchboards	Dec. 29, 1896
574,225	Scribner, C. E	Telephones, systems, central	Dec. 29, 1896
574,278	Scrihner, C. E	Systems of distribution	Dec. 29, 1896
574,279	Scrihner, C. E	Telephones, systems, divided central	Dec. 29, 1896
575,131	Scribner, C. E	Telephones, systems, central	Jan. 12, 1897
584,414	Scribner, C. E	Annunciators, drop	June 15, 1897
584,415	Scribner, C. E	Telephones, systems, central	June 15, 1897
584,416	Scrihner, C. E	Bells	June 15, 1897
584,417	Scrihner, C. E	Telephones, systems, central	June 15, 1897
584,418	Scrihner, C. E	Telephones, switchboards	June 15, 1897
584,750	Scrihner, C. E	Lights, incandescent	Jnne 15, 1897
564,456	Scrihner and McBerty	Telephones, systems	July 21, 1896
564,457	Scribner and McBerty	Telephones, systems, multiple switchboard, test	July 21, 1896
564,458	Scribner and McBerty	do	July 21, 1896
572,223	Scrihner and McBerty	do	Dec. 1, 1896
574,280	Scrihner and McBerty	Telephones, systems, central	Dec. 29, 1896
574,281	Scribner and McBerty	Telephones, switchboards	Dec. 29, 1896

No.	NAME.	CLASS.	DATE.
574,579	Scribner and McBerty	Telephones, systems, central	Jan. 5, 1897
563,327	Scribner and Warner	Telephones, switchboards	July 7, 1896
570,508	SegerdaHL, R.	Bells	Nov. 3, 1896
567,753	Selden, C.	Railway signals, sectional rail	Sept. 15, 1896
567,754	Selden, C.	do	Sept. 15, 1896
578,840	Selden, C.	Railway signals, block	Mar. 16, 1897
573,302	Selkirk, A.	Railways, sectional conductor, magnetic closers.	Dec. 15, 1896
568,374	Sellner, L.	Telegraphy, circuits and systems	Sept. 29, 1896
564,944	Sessions, F. L.	Inductriums, transformers, stationary	July 28, 1896
569,889	Seymour, H. A.	Railways, systems, overhead, trolleys	Oct. 20, 1896
570,823	Seymour, H. A.	Lights, arc, gravity-feed, ring-clutch	Nov. 3, 1896
570,824	Seymour, H. A.	do	Nov. 3, 1896
572,933	Seymour, H. A.	Railways, systems, overhead, trolleys	Dec. 8, 1896
574,117	Seymour, H. A.	Lights, arc, gravity-feed, ring-clutch	Dec. 29, 1896
574,118	Seymour, H. A.	do	Dec. 29, 1896
574,119	Seymour, H. A.	Lights, arc, special features	Dec. 29, 1896
571,849	Shallenberger, O. B.	Systems of distribution	Nov. 24, 1896
553,092	Shapleigh, W.	Mantles	May 25, 1897
581,088	Sharpe, J. E.	Insulators	Apr. 20, 1897
578,298	Shea, C. A.	Railway-brakes, fluid-pressure	Mar. 2, 1897
568,798	Sliefbauer, R.	Lights, arc, gear-feed, gravity-clutch	Oct. 6, 1896
566,235	Sheffield, G. V.	Alarms	Aug. 18, 1896
578,471	Sherman, W. N.	Medical and surgical, exercising apparatus	Mar. 9, 1897
565,240	Sherman and Kenyon	Railways, systems, conduit	Ang. 4, 1896
576,475	Shesler, D. A.	Lights, arc, special features	Feb. 2, 1897
565,518	Shoecraft, J.	Railway signals, block	Ang. 11, 1896
576,166	Shoecraft, J.	do	Feb. 2, 1897
580,010	Shonnard, H. W.	Musie, electric actions	Apr. 6, 1897
564,902	Short, S. H.	Railway rolling-stock, electric-motor, motor-supporters.	July 28, 1896
565,930	Short, S. H.	Magneto-electric, multipolar	Aug. 18, 1896
565,931	Short, S. H.	Magneto-electric, armatures, drnn	Aug. 18, 1896
566,237	Short, S. H.	Railways, systems, overhead, trolleys	Aug. 18, 1896
566,345	Short, S. H.	do	Ang. 25, 1896
567,662	Short, S. H.	Railway rolling-stock, locomotives, geared	Sept. 15, 1896
568,413	Short, S. H.	Magneto-electric, brnsnes and holders	Sept. 29, 1896
568,414	Short, S. H.	do	Sept. 29, 1896
568,415	Short, S. H.	do	Sept. 29, 1896
569,591	Short, S. H.	Batteries, carbon	Oct. 13, 1896
569,772	Short, S. H.	Railways, systems, overhead, trolleys	Oct. 20, 1896
580,011	Short, S. H.	Magneto-electric, armatures, ring	Apr. 6, 1897
582,882	Short, S. H.	Railways, systems, overhead, trolleys	May 18, 1897
582,883	Short, S. H.	Magneto-electric, brushes and holders	May 18, 1897
582,884	Short, S. H.	do	May 18, 1897
584,606	Short, S. H.	Railways, systems, overhead, trolleys	June 15, 1897
584,607	Short, S. H.	do	June 15, 1897
569,432	Shover and Townsend	Railways, sectional conductor, mcchanical closers.	Oct. 13, 1896
580,734	Siebold, A. C.	Lights, arc, special feartnes	Apr. 13, 1897
567,517	Sill, C.	Railways, sectional conductor, mechanical closers.	Sept. 8, 1896
565,574	Sill, R. van R.	Stoves and furnaces, heaters, electric	Ang. 11, 1896
572,380	Simonds, A. A.	Galvanometers	Dec. 1, 1896
575,072	Simpkins, E. J.	Mnsic, electric actions	Jan. 12, 1897
566,374	Sinclair, W. E.	Cnt-outs, mechanical, oscillating snap	Sept. 1, 1896
573,716	Singer and Singer	Telegraphy, railway-car	Dec. 22, 1896
567,816	Skeen, N.	Railway signals, block	Sept. 15, 1896
574,953	Skeen, R.	Railway signals, sectional rail	Jan. 12, 1897
574,954	Skeen, R.	do	Jan. 12, 1897
566,542	Skinner, C.	Railways, sectional conductors, mechanical closers.	Aug. 25, 1896
577,585	Skinner, C.	do	Mar. 2, 1897
571,099	Skinner, J. E.	Telcgraphy, lightning-arresters	Nov. 10, 1896
578,841	Skrivan, E.	Lighting, mantles	Mar. 16, 1897
565,933	Smith, A. P.	Railway signals, block systems	Ang. 18, 1896
582,378	Smith, J. D.	Lights, filaments and carbons	May 11, 1897
569,246	Smith, L. C.	Railway signals, flock systems	Oct. 13, 1896
571,460	Smith, S. N.	Batteries, two-flnid, zinc, nitrates	Nov. 17, 1896
581,044	Smith, W. F.	Telephones, systems	Apr. 20, 1897
567,694	Smith, W. P.	Aqueous bath	Sept. 15, 1896
585,051	Smith and Deakin	Dcpolarizing and burnishing	June 22, 1897
584,831	Smith and Johnston	Railways, systems, overhead, trolleys	June 22, 1897
574,828	Smock, B. D. B.	Insulators	Jan. 5, 1897
567,322	Snowden, E. P.	Lights, arc, special features	Sept. 8, 1896
566,545	Snyder and Timmerholm	Stoves and furnaces, heaters, electric	Ang. 25, 1896
564,723	Solean, E. F. A.	Lights, sockets and keys	July 28, 1896

No.	NAME.	CLASS.	DATE.
581,089	Southworth, M. O.	Magneto-electric, multipolar	Apr. 20, 1897
564,229	Speer, E. A.	Telegraphy, fire, automatic	July 21, 1896
572,777	Spener and Toerring	Lights, arc, gravity-feed, clutch	Dec. 8, 1896
563,424	Sperry, E. A.	Motors, hand-operating devices	July 7, 1896
563,425	Sperry, E. A.	Railway rolling-stock, locomotives, electric	July 7, 1896
565,936	Sperry, E. A.	do	Ang. 18, 1896
565,937	Sperry, E. A.	Railway-brakes, magnetic shoes	Ang. 18, 1896
565,938	Sperry, E. A.	Railway rolling-stock, locomotives, electric	Aug. 18, 1896
565,939	Sperry, E. A.	Railway-brakes, electric	Aug. 18, 1896
566,426	Sperry, E. A.	Motors, hand-operating devices	Aug. 25, 1896
571,409	Sperry, E. A.	Railway-brakes	Nov. 17, 1896
571,410	Sperry, E. A.	do	Nov. 17, 1896
574,120	Sperry, E. A.	do	Dec. 29, 1896
577,081	Sperry, E. A.	Motors, hand-operating devices	Feb. 16, 1897
582,149	Spiker, J. A.	Cut-outs, mechanical, rotary	May 4, 1897
583,513	Spilker, W.	Aqueous bath, apparatus	June 1, 1897
573,169	Sprague, A.	Railways, systems, conduit	Dec. 15, 1896
584,297	Stack, J. T.	Telegraphy, fire	Jnne 8, 1897
585,293	Stahl, S. H.	Railways, systems, overhead, trolleys	Jnne 29, 1897
570,967	Stamm, J.	Annunciators, drop system	Nov. 10, 1896
574,345	Stanley and Reynolds	Railways, systems, overhead, trolleys	Dec. 29, 1896
570,616	Steinkoenig, F.	Alarms, burglar	Nov. 3, 1896
11,576	Steinmetz, C. P.	Magneto-electric, multipolar	Nov. 21, 1896
563,426	Steinmetz, C. P.	Motors, transmission of power, alternating	July 7, 1896
563,427	Steinmetz, C. P.	Regulators, alternating, compounding	July 7, 1896
568,464	Steinmetz, C. P.	do	Sept. 29, 1896
579,283	Steinmetz, C. P.	do	Mar. 23, 1897
583,950	Steinmetz, C. P.	Meters	June 8, 1897
583,951	Steinmetz, C. P.	do	June 8, 1897
580,165	Stephens, J.	Railways, conductor supports and insulators	Apr. 6, 1897
573,493	Stephenson, A. E.	Batteries, one-fluid, zinc	Dec. 22, 1896
572,319	Sterling, C. B.	Cut-outs, mechanical, rotary	Dec. 1, 1896
576,383	Sterling, C. B.	Lighting, systems, safety	Feb. 2, 1897
564,262	Stern, P. K.	Railways, motor part along the track	July 21, 1896
570,068	Stewart, S. A.	Cut-outs, electromagnetic	Oct. 27, 1896
564,344	Stickel, S. C.	Annunciators	July 21, 1896
583,131	Stiebel, H. G.	Electrolysis, purifying liquids, water	May 25, 1897
563,428	Still, W. J.	Batteries, secondary	July 7, 1896
565,811	Stillwell, L. B.	Lighting, systems	Ang. 11, 1896
566,035	Stobrawa, M.	Railways, systems, conduit	Aug. 18, 1896
578,069	Stock, H. A.	Motors, alternating	Mar. 2, 1897
563,692	Stone, J. S.	Telephones, systems, central	July 7, 1896
577,214	Stone, J. S.	Telegraphy, circuits and systems	Feb. 16, 1897
578,275	Stone, J. S.	do	Mar. 2, 1897
580,166	Stone, J. S.	Telephones, systems, central	Apr. 6, 1897
570,827	Strohm, S. D.	Motive-power, elevators	Nov. 3, 1896
565,046	Stromberg and Carlson	Telephones, switchboards	Aug. 4, 1896
567,324	Stromberg and Carlson	Telephones, granular	Sept. 8, 1896
580,334	Stromberg and Carlson	do	Apr. 13, 1897
578,121	Strong, J. R.	Telephones, systems, central	Mar. 2, 1897
567,112	Sullivan, J. A.	Telephones, calls, step-by-step	Sept. 1, 1896
568,051	Summers, L. L.	Fences, gates, electric	Sept. 22, 1896
583,132	Sutton and Steele	Batteries, two-fluid, zinc	May 25, 1897
584,798	Sutton and Steele	Alarms, burglar	Jnne 22, 1897
570,517	Swan, A.	Lights, sockets and keys	Nov. 3, 1896
572,840	Swan, A. L.	Telephones, calls, step-by-step	Dec. 8, 1896
573,929	Swan, A.	Lights, sockets and keys	Dec. 29, 1896
583,204	Swan, A.	Lights, incandescent	May 25, 1897
574,642	Swarts, H. J.	Telephones, systems, central	Jan. 5, 1897
568,993	Sykes and O'Donnell	Railway signals, railway	Oet. 6, 1896
584,427	Tabulewitch, V.	Lighting, systems	June 15, 1897
569,072	Tackaberry, J. A.	Railway rolling-stock, motors	Oct. 6, 1896
577,540	Taylor, H. A.	Telegraphy, automatic	Feb. 23, 1897
569,727	Taylor, W. L.	Lights, sockets and keys	Oet. 20, 1896
582,493	Telge, G. A. J.	Meters	May 11, 1897
567,818	Tesla, N.	Telegraphy, condensers	Sept. 15, 1896
568,176	Tesla, N.	Transmission of power, alternating	Sept. 22, 1896
568,177	Tesla, N.	Electrolysis, ozone	Sept. 22, 1896
568,178	Tesla, N.	Transmission of power, alternating	Sept. 22, 1896
568,179	Tesla, N.	do	Sept. 22, 1896
568,180	Tesla, N.	do	Sept. 22, 1896
577,670	Tesla, N.	Transmission of power, direct	Feh. 23, 1897
577,671	Tesla, N.	Inductometers, induction-coils	Feb. 23, 1897
583,953	Tesla, N.	Motors, transmission of power	June 8, 1897
564,904	Tesseymann, H.	Railway rolling-stock, electric-motor, bogies	July 28, 1896
581,792	Tesseymann, H.	Railway rolling-stock, motors, rigid frame	May 4, 1897
583,718	Teter, W. L.	Electrolysis, purifying liquids, water	Jnne 1, 1897

## ALPHABETICAL INDEX—ELECTRICITY.

21

No.	NAME.	CLASS.	DATE.
563,333	Thayer, H. B.	Telephones, switchboards	July 7, 1896
572,036	Therye, C.	Railways, locomotives	Nov. 24, 1896
585,602	Thleim, V.	Railways, systems, overhead, trolleys	June 29, 1897
573,247	Thomas, E. G.	Measuring instruments, electrical attachments.	Dec. 15, 1896
569,309	Thomas, G. B.	Cut-outs, mechanical, rotary	Oct. 13, 1896
576,384	Thomas and Gignilliat	Motors, hand-operating devices	Feb. 2, 1897
564,036	Thompson, A. C.	Lights, incandescent, special features	July 14, 1896
567,422	Thompson, M. L.	Medical and surgical	Sept. 8, 1896
568,964	Thompson, S. P.	Telephones, anti-induction devices	Oct. 6, 1896
571,706	Thompson, S. P.	Telephones, conductors, anti-inductive	Nov. 17, 1896
571,707	Thompson, S. P.	do	Nov. 17, 1896
563,895	Thomson, E.	Inductometers, transformers, stationary	July 14, 1896
574,123	Thomson, E.	Lights, arc, gravity-feed, double dog-clutch	Dec. 29, 1896
575,772	Thomson, E.	Lights, incandescent	Jan. 26, 1897
578,430	Thomson, E.	Meters	Mar. 9, 1897
581,873	Thomson, E.	Inductometers, transformers, stationary	May 4, 1897
583,955	Thomson, E.	Lights, arc, special features	June 8, 1897
583,956	Thomson, E.	Lights, incandescent, special features	June 8, 1897
583,957	Thomson, E.	Meters	June 8, 1897
568,007	Thomson, H. C.	Batteries, one-fluid, zinc	Sept. 22, 1896
573,723	Thomson, H. C.	Telegraphy, circuit-closers	Dec. 22, 1896
565,647	Thomson and Armstrong	Magneto-electric, armatures, dynam	Aug. 11, 1896
571,462	Thomson and Geisenhouer	Magneto-electric, multipolar	Nov. 17, 1896
573,932	Thorp, A. H.	Railway signals, sectional rail	Dec. 29, 1896
578,953	Thum, F. A.	Aqueous bath, apparatus	Mar. 16, 1897
567,366	Thunderboldt, E.	Regulators, engine-control	Sept. 8, 1896
567,423	Thury, R.	Magneto-electric, multipolar	Sept. 8, 1896
567,424	Thury, R.	do	Sept. 8, 1896
570,072	Tiffany, G. S.	Telegraphy, automatic	Oct. 27, 1896
570,112	Tiffany, G. S.	Telephones, automatic	Oct. 27, 1896
573,496	Tilghman, B. C., Jr.	Railway signals, sectional rail	Dec. 22, 1896
568,644	Timpson and Rankin	Railway signals, railway	Sept. 29, 1896
565,053	Tisdale, C. D.	Telegraphy, circuit-closers, thermal	Aug. 4, 1896
565,188	Tisdale, C. D.	do	Aug. 4, 1896
565,244	Tohey and Smith	Cut-outs, mechanical	Aug. 4, 1896
585,603	Toerring, C. J.	Lights, arc, gravity-feed, double-dog clutch	June 29, 1897
563,695	Toquet, B. L.	Conductors, connectors	July 7, 1896
565,944	Toward, C. P.	Conductors, insulators	Aug. 18, 1896
564,168	Tower, G. A.	Indicators	July 14, 1896
580,628	Trebarne, F. G.	Insulators	Apr. 13, 1897
574,856	Trott, G. V.	Alarms, burglar	Jan. 5, 1897
575,080	Troutwine, W. S.	Railways, systems, overhead, trolleys	Jan. 12, 1897
585,137	Truitt, C.	Lights, incandescent, special features	June 22, 1897
584,428	Tucker, A. L.	Conductors, house-wiring	June 15, 1897
576,240	Tucker and Hinckley	Meters	Feb. 2, 1897
563,335	Tucker and Loveridge	Lighting, systems, safety	July 7, 1896
571,710	Tufts, S. F.	Railways, systems, overhead, trolleys	Nov. 17, 1896
578,170	Turner, C. P.	Tempering and annealing, applications of electricity.	Mar. 2, 1897
578,171	Turner, C. P.	Aqueous bath, ores	Mar. 2, 1897
578,280	Turner, C. P.	Magneto-electric, bipolar	Mar. 2, 1897
579,195	Turner, G. E.	Railway rolling-stock, motors	Mar. 23, 1897
563,336	Tunner and Chapman	Telegraphy, fire, non-interfering	July 7, 1896
568,355	Underwood and Daniels	Conductors, connectors	Sept. 29, 1896
567,176	Unger, P.	Telegraphy, circuit-closers, burglar	Sept. 8, 1896
576,332	Valley, G.	Motors, hand-operating devices	Feb. 2, 1897
576,333	Valley, G.	do	Feb. 2, 1897
585,138	Vandeveld, P. V.	Telegraphy, circuit-closers, lock	June 22, 1897
585,321	Van de Wiele, L. F.	Lights, incandescent, special features	June 29, 1897
578,954	Van Emon, B. C.	Motors, hand-operating devices	Mar. 16, 1897
567,928	Van Hoevenbergh, H.	Igniting devices	Sept. 15, 1896
584,249	Van Hoevenbergh, H.	Cut-outs, thermal	June 8, 1897
566,252	Van Hoogstrate, J.	Railways, systems, overhead, trolleys	Aug. 18, 1896
569,529	Vellines, B. H.	Medical and surgical, body-wear	Oct. 13, 1896
581,242	Viele, F. S.	Railways, conductor supports and insulators	Apr. 20, 1897
567,699	Vincent, J. A.	Metallurgy, furnaces, electric	Sept. 15, 1896
573,526	Von Nollendorf, E. H. A. H. R.	Lights, arc, gravity-feed, gear-clutch	Dec. 22, 1896
582,772	Von Zweigbergk, T.	Motors, hand-operating devices	May 18, 1897
569,692	Voorhees, G. F.	Cut-outs, thermal, plug	Oct. 20, 1896
573,558	Voss, D. C.	Conductors, rheostats	Dec. 22, 1896
576,243	Vreede, C.	Telegraphy, circuits and systems	Feb. 2, 1897
580,180	Wade, Moores, and Farrell	Regulators, sectional winding	Apr. 6, 1897
583,959	Waegel, W.	Lights, incandescent, special features	June 8, 1897
563,337	Wait, H. H.	Magneto-electric, brushes and bolders	July 7, 1896
584,431	Wait, H. H.	Magneto-electric, armatures, ring	June 15, 1897
566,103	Waite, H. F.	Conductors, rheostats	Aug. 18, 1896

NO.	NAME.	CLASS.	DATE.
565,056	Waite, H. E	Medical and surgical, baths	Aug. 4, 1896
573,117	Wales and Arnold	Telephones, systems, central	Dec. 15, 1896
579,728	Walker, W. H	Railways, systems, overhead	Mar. 30, 1897
572,668	Walker and Wilson	Conductors, connectors	Dec. 8, 1896
564,415	Wallace, T	do	July 21, 1896
570,740	Walton, F. T	Railways, systems, overhead, trolleys	Nov. 3, 1896
581,081	Wappler, R. H	Systems of distribution	Apr. 20, 1897
564,907	Ward, B. B	Lights, are, gravity-feed, gear-clutch	July 28, 1896
567,845	Ward, W. H	Alarms, burglar, safe	Sept. 15, 1896
565,867	Warner, E. P	Motors, hand-operating devices	Aug. 11, 1896
571,420	Warren, A. K	Magneto-electric, brushes and holders	Nov. 17, 1896
564,951	Washburn, A. H	Lighting, systems	July 28, 1896
584,149	Watters, L. H	Clocks	June 8, 1897
583,104	Wattles, L. H	Batteries, gas	May 25, 1897
569,262	Wayland, J	Special applications, electromagnets	Oct. 13, 1896
569,263	Wayland, J	Railway signals, sectional rail	Oet. 13, 1896
569,264	Wayland, J	do	Oet. 13, 1896
569,265	Wayland, J	do	Oet. 13, 1896
567,872	Weaver, O. B	Alarms, burglar	Sept. 15, 1896
566,951	Webb, H. L	Telephones, calls, step-by-step	Sept. 1, 1896
585,492	Webb, J. F	Aqueous bath, ores	June 29, 1897
575,186	Weckel, J. H	Telephones, systems, central	Jan. 12, 1897
571,410	Weidenreick and Monrath	Railways, telpher and towing	Nov. 17, 1896
578,670	Weigel, J	Telephones, magnetic	Mar. 9, 1897
578,126	Weiny, R. H	Telegraphy, automatic	Mar. 2, 1897
570,619	Weise, C. H	Batteries, secondary	Nov. 3, 1896
584,229	Welden, B. F	Conductors, connectors	June 8, 1897
563,342	Welles, A. T	Conduets, underground	July 7, 1896
568,506	Wellman, H. R	Motive-power, elevators	Sept. 29, 1896
575,449	Werner, A. L	Batteries, vessels	Jan. 19, 1897
574,231	Werner, E. E	Conductors, rheostats	Dec. 29, 1896
573,944	West, A. H	Telegraphy, circuit-closers, thermal	Dec. 29, 1896
581,446	West, H. C	Telephones, systems	Apr. 27, 1897
573,066	Westinghouse, G	Railways, sectional conductor, magnetic closers	Dec. 15, 1896
579,506	Westinghouse, G	Railways, systems, overhead, trolleys	Mar. 23, 1897
579,525	Westinghouse, G	Railways, sectional conductor, magnetic closers	Mar. 23, 1897
579,526	Westinghouse, G	Railway rolling-stock, starters	Mar. 23, 1897
579,527	Westinghouse, G	Railways, locomotives	Mar. 23, 1897
582,494	Westinghouse, G	Magneto-electric, armatures, ring	May 11, 1897
584,911	Westinghouse, G	Railways, systems, overhead	June 22, 1897
577,802	Westman, G. M	Metallurgy, furnaces	Feb. 23, 1897
583,423	Wheeler, A. D	Telegraphy, repeaters	May 25, 1897
583,524	Wheeler, A. G	Railways, systems, conduit	June 1, 1897
583,525	Wheeler, A. G	do	June 1, 1897
575,918	Wheeler, S. L. S	Magneto-electric, brushes and holders	Jan. 26, 1897
564,558	Whitacre and Wolfe	Mills, separators, magnetic	July 28, 1896
564,859	Whitacre and Wolfe	do	July 28, 1896
566,045	Whitaker and Treharue	Conductors, insulators	Aug. 18, 1896
570,078	Whiting, W. M	Railways, systems, overhead, trolleys	Oet. 27, 1896
578,685	Whitney, E. R	Metallurgy, furnaces	Mar. 9, 1897
582,107	Whittemore, Barrett, and Craft	Telephones, calls, strength and polarity	May 4, 1897
564,130	Wiedring, F. C	Electrolysis, purifying liquids, alcohol	July 14, 1896
566,829	Wieltsbach, V	Telephones, systems, multiple switchboard, divided central	Sept. 1, 1896
569,266	Wightman, M. J	Conductors, connectors	Oct. 13, 1896
567,759	Wilkinson, C. P	Railway signals, block	Sept. 15, 1896
567,760	Wilkinson, C. P	do	Sept. 15, 1896
576,177	Willard, T. A	Batteries, secondary	Feb. 2, 1897
576,178	Willard, T. A	do	Feb. 2, 1897
572,923	Williams, E. C	Telegraphy, circuit-closers	Dec. 8, 1896
568,650	Williams, G. H	Conductors, connectors	Sept. 29, 1896
565,150	Williams, J. T	Railway signals, sectional rail	Aug. 4, 1896
569,807	Williams, J. T	Telephones, calls	Oct. 20, 1899
578,380	Williams and Abbott	Telephones, calls, strength and polarity	Mar. 9, 1897
582,889	Williams, Kinney, and Kinney	Fences, gates, railway	May 18, 1897
572,285	Willms, C	Batteries, one-fluid, zinc, chloride	Dec. 1, 1896
572,080	Wiltshire and Massie	Indicators	Nov. 24, 1896
575,788	Willsou, T. L	Electrolysis, fused bath	Jan. 26, 1897
563,531	Wilson, C. F	Railways, systems, overhead, trolleys	July 7, 1896
564,811	Wilson, J. H	Clocks, electric	July 28, 1896
571,502	Wilson, R	Motive-power, elevators	Nov. 17, 1896
583,963	Winckler, G	Cut-outs, mechanical	June 8, 1897
274,843	Winslow, W. H	Aqueous bath, cathodes	Jan. 5, 1897
576,710	Wirt, H. C	Cut-outs, thermal, plng	Feb. 9, 1897
571,032	Wirt, Green, and Burger	Meters	Nov. 10, 1896

No.	NAME.	CLASS.	DATE.
573,948	Wollin, J. C	Alarms	Dec. 29, 1899
571,181	Wood, J. J	Magneto-electric, multipolar	Nov. 10, 1896
569,443	Wood, G. T	Motors, transmission of power, direct	Oct. 13, 1896
568,060	Wood, W	Insulators	Sept. 22, 1896
584,029	Woodbridge, J. L	Lighting, systems, hand-regulation	June 8, 1897
566,366	Woods, C. E	Magneto-electric, brushes and holders	Ang. 25, 1896
573,023	Woods, C. E	Motors, hand-operating devices	Mar. 16, 1897
571,143	Woodward, H	Batteries, secondary	Nov. 10, 1896
580,919	Woolf, A. E	Aqueous bath, chemicals	Apr. 20, 1897
581,052	Woolf, A. E	Electrolysis, bleaching	Apr. 20, 1897
578,070	Woolf, A. E	Aqueous bath, anodes	Mar. 2, 1897
563,531	Woolley, L. G	Telegraphy, circuit-closers, thermal	July 14, 1896
582,891	Worms, E	Electrolysis, tanning	May 18, 1897
583,160	Wright, A	Galvanometers	May 25, 1897
582,840	Wright, E. H	Cut-outs, mechanical, oscillating snap	May 18, 1897
583,242	Wright, J. A	Connectors	May 25, 1897
579,211	Wright, W	Mills, amalgamators	Mar. 23, 1897
581,643	Wright, W	do	Apr. 27, 1897
585,301	Wurmb and Baumann	Clocks	June 29, 1897
574,978	Wurts, A	Telegraphy, lightning-arresters	Jan. 12, 1897
564,679	Wurts, A. J	Connectors	July 28, 1896
570,212	Wurts, A. J	Cut-outs, electro-magnetic	Oct. 27, 1896
570,414	Wurts, A. J	do	Oct. 27, 1896
570,415	Wurts, A. J	Lighting, systems, safety	Oct. 27, 1896
570,416	Wurts, A. J	do	Oct. 27, 1896
570,417	Wurts, A. J	Cut-outs, electromagnetic	Oct. 27, 1896
570,418	Wurts, A. J	Cut-outs, mechanical, rotary	Oct. 27, 1896
570,419	Wurts, A. J	Cut-outs, mechanical	Oct. 27, 1896
571,103	Wurts, A. J	do	Nov. 10, 1896
582,111	Wurts, A. J	do	May 4, 1897
580,244	Yarnold, C. J	Electrolysis, ozone	Apr. 6, 1897
584,912	Yearsley, J. H	Magneto-electric, brushes and holders	June 23, 1897
565,125	Yetmau, C. E	Telegraphy, printing	Aug. 4, 1896
567,223	Young and Norton	Telegraphy, railway-car	Sept. 8, 1896
563,832	Young, J	Telegraphy, fire, automatic	July 14, 1896
572,081	Young, J. A	Telegraphy, circuit-closers, thermal	Nov. 24, 1896
579,213	Young, H. R	Conductors, house-wiring	Mar. 23, 1897
571,704	Young, T. W	Railways, conductor supports and insulators	Feb. 23, 1897
583,273	Zweigbergk, T. von	Motors, hand operating devices	May 25, 1897





















3 9088 00044 9173  
SMITHSONIAN INSTITUTION LIBRARIES